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Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257

San Ramon, CA 94583 Phone: (925) 275-3801 Fax: (925) 275-3815

29 December 2006

Re: Corrective Action Plan Former BP Station # 11117 7210 Bancroft Avenue Oakland, California ACEH Case # RO0000356

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Paul Supple

Environmental Business Manger

Broadbent & Associates, Inc. 1324 Mangrove Ave., Suite 212 Chico, CA 95926 Voice (530) 566-1400 Fax (530) 566-1401



29 December 2006

Job No. 06-08-649

Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company (a BP affiliated company) PO Box 1257 San Ramon, California 94583 Submitted via ENFOS

RE: CORRECTIVE ACTION PLAN, FORMER BP SERVICE STATION No. 11117 7210 BANCROFT AVENUE, OAKLAND, CALIFORNIA

ACEHS CASE No. RO0000356

Dear Mr. Supple,

Broadbent & Associates, Inc. is pleased to present the enclosed *Corrective Action Plan* for the above-referenced facility. This Corrective Action Plan was prepared in response to a letter request from the Alameda County Environmental Health Services (ACEHS) dated 2 June 2006. In accordance with that request, this Corrective Action Plan includes discussion of the site background, previous investigations, regional and site geology and hydrogeology, preferential pathways, sensitive receptors, risk assessment and cleanup objectives, remediation options, and recommended approach.

Should you have any questions concerning this Corrective Action Plan, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.

Senior Engineer

Robert H. Miller, P.G. Principal Hydrogeologist

Enclosure

cc: Mr. Steven Plunkett, ACEHS (Submitted via ACEHS ftp site)

Ms. Liz Sewell, ConocoPhillips (Submitted via COC ftp site)

Mr. Jim Givens, One Eastmont Town Center, Oakland, California 94605-1907

Ms. Diane Clark, Eastmont Town Center CX LLC, 7200 Bancroft Avenue, Oakland,

California 94605-2403

ARIZONA CALIFORNIA

NEVADA

TEXAS

ROBERT H MILLER

No. 4393

CORRECTIVE ACTION PLAN

Former BP Service Station No. 11117 7210 Bancroft Avenue, Oakland, California ACEH Case No. RO0000356

Prepared for

Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company P.O. Box 1257 San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

December 2006

Project No. 06-08-649

Table of Contents

List of Tables		ii
List of Figures		ii
List of Appendi	ices	ii
Section 1:	Introduction	1
Section 2:	Site Background	1
Section 3:	Site Conditions	5 5 6 6
Section 4:	Preferential Pathway Analysis	7
Section 5:	Sensitive Receptors	8
Section 6:	Risk Assessment	8
Section 7:	Remedial Actions Taken	9
Section 8:	Screening of Remediation Technologies 8.1 No Action and Monitored Natural Attenuation. 8.2 Excavation, Soil Vapor Extraction, and Bioventing 8.3 Bioremediation. 8.4 Ground Water Extraction and Treatment 8.5 Biosparging. 8.6 In-Situ Oxidation. 8.7 Dual-Phase Extraction and Treatment.	
Section 9:	Alternatives Evaluation	12
Section 10:	Recommended Approach	13
Section 11:	Closure	13
Section 12:	References	14

List of Tables

- 1 Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
- 2 Summary of Fuel Additives Analytical Data
- 3 Historical Ground-Water Flow Direction and Gradient (with Rose Diagram)

List of Figures

- 1 Site Location Map
- 2 Ground Water Elevation Contours and Analytical Summary Map
- 3 Historic Depth to Water Measurements
- 4 Gasoline Range Organics Iso-Concentration Contours Map
- 5 Benzene Iso-Concentration Contours Map
- 6 MTBE Iso-Concentration Contours Map
- 7 Historic Hydrocarbon Concentrations in MW-2
- 8 Historic Hydrocarbon Concentrations in MW-4

List of Appendices

- A Soil Boring/Monitoring Well Construction Logs
- B Historic Soil and Ground-Water Analytical Data and Sample Locations
- C Geologic Cross-Sections
- D Underground Utilities Map

1.0 INTRODUCTION

On behalf of the Atlantic Richfield Company, RM – a BP affiliated company, Broadbent & Associates, Inc. (BAI) has prepared this Corrective Action Plan (CAP) for the Former BP Service Station No.11117, located at 7210 Bancroft Avenue, Oakland, California (Site). This CAP was prepared in response to a letter request from the Alameda County Health Care Services Environmental Health Program (ACEH) dated 2 June 2006. Specifically, ACEH technical comments within the 2 June 2006 letter stated that the purpose of the CAP will be to propose cost-effective final cleanup objectives for the entire contaminant plume and remedial alternatives for soil and ground water that will adequately protect human health and safety, the environment, eliminate nuisance conditions, and protect water resources. Furthermore, the objectives of the CAP will be to detail at least three technically and economically feasible methods to restore and protect beneficial uses of water and to meet the cleanup objectives for each contaminant established in the CAP. In accordance with the letter request of 2 June 2006 and California Code of Regulations Title 23 Section 2725, this CAP includes discussions on the site background and previous investigations, regional and Site geology and hydrogeology, preferential pathways, sensitive receptors, risk assessment and cleanup objectives, remediation options, and recommended approach. Tables, figures, and appendices referenced within the CAP are provided following the conclusion of the document's text.

2.0 SITE BACKGROUND

2.1 Site Description

The Site is an active 76-brand gasoline retail outlet located on the northeastern corner of Bancroft Avenue and 73rd Avenue in Oakland, California (Figure 1). The land use in the immediate vicinity of the Site is mixed commercial and residential. BP acquired the facility from Mobil Oil Corporation in 1989. In January 1994, BP transferred the property to TOSCO Marketing Company and has not operated the facility since that time.

The Site consists of a service station building and three 12,000-gallon gasoline underground storage tanks (USTs) and one 10,000-gallon diesel UST with associated piping and dispensers. The Site is covered with asphalt or concrete surfacing except for planters along the southeastern and southwestern property boundaries and at the north corner of the property.

2.2 Previous Environmental Activities

A summary of environmental work previously performed at the Site is presented below.

1984 UST Replacement: In 1984, the pre-existing USTs at the Site were removed and three gasoline USTs (6,000-gallon, 10,000-gallon, and 12,000-gallon) and one 6,000-gallon diesel UST were installed immediately to the east. The newly installed USTs were single-walled fiberglass USTs. An associated UST removal report is not on file. It is unknown whether a UST removal report was in fact prepared. No documentation was reportedly found referencing the conditions of the removed USTs or reporting evidence of hydrocarbon impacts in the soil and ground water, if any, at the time of the UST removal.

1989 Phase II Environmental Audit: In December 1989, a Phase II environmental audit was conducted on the adjacent Eastmont Town Center site located to the north and northwest of the former BP Site. Part of the respective Phase II study relevant to the former BP Site included the installation of monitoring well MW-3 near the western boundary of the former BP Site. The analytical results of soil samples collected from 10 and 20 feet below ground surface (bgs) from MW-3 reported total petroleum hydrocarbons (TPH), benzene, toluene, ethyl benzene, and total xylenes (BTEX), and oil and grease concentrations below their respective

laboratory reporting limits. The analytical results of ground-water samples from MW-3 reported TPH and benzene concentrations of 2,700 micrograms per liter (μ g/L) and 530 μ g/L, respectively.

1991 Phase I Subsurface Investigation: In December 1991, two soil borings (MW-1 and MW-2) were drilled on-site to total depths of 40 feet bgs, soil samples were collected at 10 foot intervals between 5 and 25 feet bgs and the respective borings were subsequently converted into monitoring wells MW-1 and MW-2. First ground water was encountered at approximately 30 feet bgs. The analytical results of the soil samples from MW-1 and MW-2 reported total petroleum hydrocarbons as gasoline (TPH-g) and BTEX at concentrations below their respective laboratory reporting limits.

Borings MW-4 and MW-6 were advanced to total depths of 40 feet bgs, and boring B-5 was advanced to 50 feet bgs. First ground water was encountered at approximately 30 feet bgs in borings MW-4 and MW-6, and no free water was encountered in boring B-5. The analytical results of soil samples collected at 30 feet bgs from B-5 and MW-6 reported TPH-g and BTEX at concentrations below their respective laboratory reporting limits. The maximum TPH-g and BTEX concentrations in soil reported in MW-4 were 6,000 milligrams per kilograms (mg/kg) and 34 mg/kg, respectively, from 20 feet bgs. Borings MW-4 and MW-6 were subsequently converted into monitoring wells.

1994 Baseline Assessment Report: In September 1994, a supplemental Site assessment was conducted at the Site. Four exploratory soil borings (THP-1, TB-2, TB-3, TB-4) were advanced to a maximum depth of 45 feet bgs, north of the former and existing UST complexes (THP-1), at the former service bays (TB-2), north of the northern pump island (TB-3), and at a former pump island (TB-4). Additionally, one soil sample was collected from beneath each of the five dispensers (TD-1 through TD-5). Ground water was encountered in TB-2 and TB-3 at approximately 33 to 36 feet bgs and ground-water samples were collected from TB-2 and TB-3 via temporary well points. Maximum concentrations of 16 mg/kg TPH-g (TD-3), TPH as diesel (TPH-d) at concentrations ranging from 110 mg/kg to 5,800 mg/kg (TD-1 through TD-5), and benzene at concentrations below laboratory reporting limits were reported in soil samples. No TPH-g was detected at concentrations above the laboratory reporting limits and a maximum concentration of 0.7 μg/L benzene (TB-3) was reported in ground-water samples. Boring MW-7 was advanced to a total depth of 45 feet bgs, and borings MW-8 and MW-9 were advanced to total depths of 40 feet bgs. First encountered ground water was at approximately 27 feet bgs to 32 feet bgs. No TPH-g or BTEX were detected above their respective laboratory reporting limits in soil samples collected from 25 feet bgs in each boring. The three borings were subsequently converted into monitoring wells MW-7 through MW-9.

1997 Offsite Well Installation: In July 1997, one boring (MW-10) was drilled off-site to a depth of approximately 37.5 feet bgs. Soil samples were collected and the boring was subsequently converted into a monitoring well. First ground water was encountered at approximately 26 feet bgs. No TPH-g, BTEX or methyl tertiary butyl ether (MTBE) was detected in soil samples at concentrations above their respective laboratory reporting limits in MW-10. No TPH-g or BTEX was detected in the ground-water sample from MW-10 at concentrations above their respective laboratory reporting limits. However, MTBE was detected at a concentration of 13 μg/L using EPA Method 8020.

1998 UST and Associated Piping and Dispenser Removal: In August 1998, the three gasoline USTs (6,000-gallon, 10,000-gallon, and 12,000-gallon) and one 6,000-gallon diesel UST, and associated dispensers and piping were removed from the Site. There was no visible evidence of leakage from the USTs removed. A total of eight native soil samples were collected from beneath each end of the removed USTs at depths of 14 to 16 feet bgs, and a total of 18 soil samples were collected from the former dispenser locations and from beneath the associated product lines at three feet bgs. TPH-g was detected in five of the eight UST excavation samples at concentrations ranging from 3.7 mg/kg (S-15-T2S) to 5,300 mg/kg (S-15-T1S). TPH-d was detected at 630 mg/kg (S-15-T1N) and 800 mg/kg (S-15-T1S) in two samples, benzene concentrations ranged between 0.40 mg/kg (S-15-T1N) to 0.95 mg/kg (S-16-T3N) in three samples, MTBE concentrations

ranged between 0.028 mg/kg (S-14-T4S) to 5.3 mg/kg (S-16-T3N) in seven samples, and lead was not detected in the sample analyzed for lead. TPH-g was detected in nine of the eighteen dispenser and product line samples with concentrations ranging between 1.4 mg/kg (S-3-PL12) to 7,200 mg/kg (S-3-D4). TPH-d was detected between 4.8 mg/kg (S-3-PL3) to 190 mg/kg (S-3-PL11) in five samples, benzene was detected between 0.0089 mg/kg (S-3-PL-12) to 22 mg/kg (S-3-D4) in three samples, and MTBE was detected between 0.048 mg/kg (S-3-PL12) to 15 mg/kg (S-3-PL1) in ten samples. During the 1998 UST replacement activities, approximately 389 tons of soil and backfill were transported off-site for disposal. The existing 10,000-gallon diesel and three 12,000-gallon gasoline USTs were installed as replacements.

1999 Ground-Water Recovery Test: In April 1999, a ground-water recovery test was performed on wells MW-1 through MW-4, MW-6, MW-7 and MW-10 to assess the spatial variation in hydraulic conductivity in the shallow water-bearing zone across the Site. The hydraulic conductivity values estimated from the recovery testing are presented in Alisto Engineering Group's Results of Recovery Testing dated 4 June 1999. Testing by the Bouwer-Rice method yielded hydraulic conductivities of 2.46 x 10⁻² ft/min for MW-1, 2.42 x 10⁻⁴ ft/min for MW-2, 3.82 x 10⁻⁴ ft/min for MW-3, 5.75 x 10⁻⁴ ft/min for MW-4, 1.99 x 10⁻² ft/min for MW-6, 1.09 x 10⁻⁴ ft/min for MW-7, and 8.78 x 10⁻⁵ ft/min for MW-10. The geometric mean of the hydraulic conductivity and flow velocity values were calculated to be 1.37 x 10⁻⁵ feet per second and 73.85 feet per year, respectively.

1999 Extraction Well Installation: In November 1999, two 4-inch diameter wells (EX-1 and EX-2) were installed on-site to facilitate potential remedial activities at the Site. Well EX-1 was drilled to 39.5 feet bgs and EX-2 was drilled to 36.5 feet bgs. Ground water was first encountered at 26 feet bgs. No TPH-G or BTEX, and relatively low MTBE concentrations were reported in soil samples collected from EX-1 and EX-2.

2000 Interim Remedial Action and Recovery Testing: Between March 16 and April 30, 2000, interim remedial activities were conducted at the Site to evaluate the effectiveness of hydrocarbon and MTBE reduction using short-term ground-water extraction. During eight extraction events, approximately 10,900 gallons of ground water was extracted from wells EX-1, EX-2 and MW-2. During the extraction events, stable to slightly decreasing hydrocarbon and MTBE concentration trends were exhibited in samples collected from wells MW-2 and EX-1, located immediately southwest of the existing USTs. Samples from well EX-2, located north of the existing USTs, exhibited lower hydrocarbon and MTBE concentrations than MW-2 and EX-1. In April 2000, during the batch extraction events, recovery tests were conducted on wells EX-1, EX-2 and MW-2. Based on the recovery test measurements, the calculated hydraulic conductivity values ranged from 1.85 x 10⁻⁴ ft/min to 8.33 x 10⁻⁴ ft/min with resulting flow velocities of 16 ft/year to 73 ft/year at well MW-2. The calculated hydraulic conductivity values ranged from 2.02 x 10⁻⁵ ft/min to 3.85 x 10⁻⁵ ft/min for well EX-1 with resulting flow velocities of 1.8 to 3.4 ft/yr. And a well EX-2, the calculated hydraulic conductivity values ranged from 3.04 x 10⁻⁴ ft/min to 2.13 x 10⁻³ ft/min for resulting flow velocities of 27 ft/year to 187 ft/year. The geometric mean of these values is a hydraulic conductivity of 3.0 x 10⁻⁴ ft/min and resulting flow velocity of 26 ft/year.

2000 Potential Receptor Survey, Expanded Site Plan and Well Search: In October 2000, Alisto Engineering Group completed a potential receptor survey, prepared an expanded site plan with neighboring property parcel information and underground utilities mapped, and identified wells in the vicinity of the Site. A review of the files of the California Department of Water Resources (DWR) was performed to identify all known wells within a one-half mile radius of the Site. The results of the well search revealed that there were 17 wells other than the onsite monitoring wells. Of these, 11 were offsite monitoring wells, four were cathodic protection wells, one an industrial well, and one an irrigation well for a nearby cemetery. No domestic/municipal water supply wells were identified from review of the DWR files. Copies of the completion logs from the DWR files for these wells are contained within the 19 October 2000 Alisto report.

Corrective Action Plan Former BP Service Station No. 11117 December 2006 Page 4 of 15

2001 Dual-Phase Extraction Pilot Test: During October 29, through November 2, 2001, a dual-phase soil vapor and ground-water extraction (DPE) pilot test was performed on the monitoring wells with the highest historical hydrocarbon concentrations (i.e., MW-2 and MW-4) and the extraction wells (EX-1 and EX-2) at the Site. The DPE test results indicated that the vacuum influence was limited to within 18 to 28 feet of the extraction well. Water levels typically decreased several feet in the extraction wells and had a varied response in the observation wells. Estimated vapor-phase removal rates were approximately 200-pounds of hydrocarbon per day in wells MW-4 and EX-1, and less than 5-pounds of hydrocarbon per day in wells MW-2 and EX-2. Soil vapor concentrations showed a decreasing trend in wells MW-4 and EX-1 during the short-term pilot tests. Grab water samples collected before and after the pilot tests remained the same order of magnitude. A total of 6,500 gallons of water was extracted during the DPE pilot test and appropriately disposed off-Site. Overall, the test results indicated that DPE is a feasible remedial alternative for the Site and ACEH approved Cambria's August 8, 2002, Dual Phase Extraction Pilot Test Report as a Corrective Action Plan (CAP).

2005 Soil and Water Investigation: In Fall 2005, URS completed nine Geoprobe soil borings with colocated Hydropunch borings. The first phase of the work was onsite source area characterization: five boring locations (A-1 through A-5) were advanced in the vicinity of the possible hydrocarbon source areas such as locations of the former and current USTs, product dispensers, and in the vicinity of MW-4 to adequately characterize the lateral and vertical extent of petroleum hydrocarbons in soils in the identified source areas. An offsite assessment was completed during the second phase of work (borings A-7 through A-10) to further define the downgradient, cross-gradient, and upgradient extent of the groundwater plume. (Soil boring A-6 was unable to be advanced due to close proximity to electric lines and product piping. Maximum concentrations of gasoline range organics (GRO), benzene, and methyl tert-butyl ether (MTBE) were detected in soil at concentrations of 490 mg/kg [A-4 (23.5-24')], 28 mg/kg [A-5 (35-35.5')], and 0.84 mg/kg [A-1 (46-46.5')], respectively. Maximum concentrations of GRO, benzene, and MTBE were detected in ground water at concentrations of 510,000 μg/L [A-2 (21.3')], 11,000 μg/L [A-4 (34-36')], and 39,000 μg/L [A-4 (34-36')], respectively.

The cross-gradient and downgradient lateral extents of the dissolved hydrocarbon plume were characterized during this last investigation. However, the vertical extent of dissolved phase hydrocarbons on the southern portion of the Site was not defined. Specifically, significantly elevated concentrations were detected in ground-water Hydropunch samples collected from the bottom depths of soil borings A-2, A-3, and A-4. The bottom Hydropunch sample from boring A-2 (40-42 ft bgs) contained concentrations of GRO, benzene, and MTBE at 36,000 μ g/L, 1,800 μ g/L, and 110 μ g/L, respectively. The bottom Hydropunch sample from boring A-3 (34-36 ft bgs) contained concentrations of GRO, benzene, and MTBE at 12,000 μ g/L, 21 μ g/L, and 8.3 μ g/L, respectively. The bottom Hydropunch sample from boring A-4 (34-36 ft bgs) contained GRO, benzene, and MTBE concentrations of 120,000 μ g/L, 11,000 μ g/L, and 39,000 μ g/L, respectively. Therefore, the vertical extent of dissolved phase petroleum hydrocarbon contamination remains unknown in this southern area of the Site. A work plan for soil and water investigation to delineate the vertical extent of contamination in the southern portion of the Site was submitted to ACEH in October 2006.

To date, a total of eleven wells have been installed at the Site: wells MW-1 through MW-4, MW-6 through MW-10, EX-1 and EX-2. Monitoring well locations are shown on Figure 2. Wells MW-1 and MW-2 are screened from approximately 20 feet bgs to 40 feet bgs; well MW-3 is screened from 30 to 45 feet bgs; wells MW-4 and MW-6 are screened from approximately 20 to 40 feet bgs; well MW-7 is screened from approximately 25 to 45 feet bgs; wells MW-8 and MW-9 are screened from approximately 25 to 40 feet bgs; and well MW-10 is screened from approximately 15 to 35 feet bgs. Wells EX-1 and EX-2 are screened from approximately 18 feet bgs to 38 feet bgs and 15 feet bgs to 35 feet bgs, respectively. Existing soil boring and well construction logs are provided in Appendix A.

A quarterly ground-water monitoring program was initiated at the Site in January 1992 and is ongoing. Currently this schedule stipulates quarterly monitoring of all wells and quarterly collection of samples from wells MW-2, MW-4, MW-7, MW-10, EX-1, and EX-2; semi-annual collection of samples from MW-9 (first and third quarters); and annual collection of samples from MW-1, MW-3, MW-6, and MW-8 (first quarter). The laboratory analytical data of the ground-water monitoring program are included as Table 1 and Table 2. Historical ground-water flow directions at the Site are presented in Table 3. Historic soil and water concentrations and sampling locations are shown in Appendix B.

3.0 SITE CONDITIONS

3.1 Regional Geology and Hydrogeology

According to the East Bay Plain Groundwater Basin Beneficial Use Evaluation Report (California Regional Water Quality Control Board – San Francisco Bay Region/SFRWQCB, June 1999), the Site is located within the Oakland Sub-Area of the East Bay Plain of the San Francisco Basin. The Oakland Sub-Area contains a sequence of alluvial fans. The alluvial fill thickness ranges from 300 to 700 feet deep. There are no well-defined aquitards such as estuarine mud. The largest and deepest wells in this sub-area historically pumped one to two million gallons per day at depths greater than 200 feet. Overall, sustainable yields are low due in part to low recharge potential. The Merrit sand in West Oakland was an important part of the early water supply for the City of Oakland. However, it is shallow (less than 60 feet), and before the turn of the century, septic systems contaminated the water supply wells.

Throughout most of the Alameda County portion of the East Bay Plain, from Hayward north to Albany, water level contours show that the general direction of ground water flow is from east to west or from the Hayward Fault to the San Francisco Bay. Ground-water flow direction generally correlates to topography. Flow direction and velocity are also influenced by buried stream channels that typically are oriented in an east-west direction. In the southern end of the study area however, near the San Lorenzo Sub-Area, the direction of flow may not be this simple. According to information presented in *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, the small set of water level measurements available seemed to show that the ground water in the upper aquifers may be flowing south, with the deeper aquifers, the Alameda Formation, moving north. The nearest natural drainage is Arroyo Viejo, located approximately 1,300 feet south-southeast of the Site. The Arroyo Viejo channel flows generally east to west, but flows north-northwestward before turning southwest again south of the Site.

3.2 Site Geology and Hydrogeology

The Site elevation is approximately 50 feet above mean sea level. The water table fluctuates seasonally and has risen about 10 feet since 1992. Figure 3 presents historic depth to water measurements for wells MW-2, MW-4, EX-1, and EX-2 at the Site. The static depth to water in monitoring wells at the Site has ranged between an historic minimum of 9.49 ft bgs (MW-3 on 5/22/2000) and maximum of 34.07 feet bgs (MW-2 on 12/27/1993). However, it is possible that the minimum measurement was an anomaly, as the next minimum depth to water measurement was 12.04 ft bgs (MW-8 on 1/18/2005). Historically, depth-to-water measurements have more typically ranged around 15 to 20 feet bgs (Table 1). Ground-water flow direction during the third quarter monitoring event on 29 August 2006 was to the northeast at a gradient of 0.006 ft/ft (Figure 2). Based on historical quarterly ground-water monitoring data, potentiometric contours would indicate that local ground-water generally flows towards the north-northeast. Although this flow direction seems contrary to the surface topography and assumed flow direction towards the west-southwest, they are similar to the recent ground-water flow directions reported at the nearby Chevron Station across the street at 7225 Bancroft Avenue. Historic ground-water flow directions and gradients for the Site are summarized in Table 3, along with a rose diagram graphically illustrating this trend in flow directions.

The Site is typically underlain by clays with 1 to 4 foot thick intervals of sands and gravels to a total explored depth of approximately 45 feet bgs. Boring logs for wells MW-1, MW-2, MW-6 and MW-7 indicate less than 5 feet of sand and/or gravel encountered, while those for wells MW-3, MW-4, MW-8, MW-9, MW-10, EX-1 and EX-2 indicate more than 10 feet of sand and/or gravel encountered. The lithology observed in the most recent soil borings A-1 through A-5 and A-7 through A-10 was predominately a clay gravel layer in the first foot. Silty clays and clayey silts were then encountered to a depth of approximately 14 to 20 ft bgs. Clayey sands and sandy and clayey gravels were then encountered to a depth of approximately 25 to 30 ft bgs. Gravels and sands were then encountered to a depth of approximately 25 to 30 ft bgs. Gravels and sands were then encountered to a depth of approximately 45 ft bgs. Silty clay was encountered below 45 ft bgs, specifically in boring A-1, where the total depth explored was 46 ft bgs. Off-site borings to the east were similar with the exception that clayey silt was encountered at a depth of approximately 35 ft bgs. Off-site boring A-10 varied greatly from all other borings. An angular gravel fill was encountered beneath a mulch layer to three feet bgs. Predominately silt or silty sand underlies the fill to approximately 35 feet bgs. Silty gravel was encountered from 35 to the total depth sampled of 39 feet bgs. Ground water was first encountered during drilling at depths ranging from 19 feet to 25 feet bgs. Soil boring logs are included within Appendix A. Geologic cross-sections of the Site are provided in Appendix C.

3.3 Distribution of Hydrocarbons in Soil

Previous soil borings and excavation samples found detectable concentrations of hydrocarbons above the ground-water table principally around the southern dispensers and southern end of the current UST pit. During the 1991 subsurface investigation, significant concentrations of TPH-G in soil above the ground-water tables were detected during the drilling of well MW-4 in the southeastern portion of the Site. In the boring of MW-4, TPH-G was reported at 240 mg/kg at 15 ft bgs, 6,000 mg/kg at 20 ft bgs, and 1,100 mg/kg at 25 ft bgs. Interestingly, petroleum hydrocarbons were not detected in soil samples from drilling of well MW-2 between the southern dispenser island and the former and existing UST pits.

During the 1998 environmental activities to remove and replace the USTs and associated piping and dispensers, soil sampling beneath the eastern product dispenser of the island south and closest to the station building detected contamination as TPH-G up to 7,200 mg/kg. Soil sampling also detected contamination as TPH-G up to 5,300 mg/kg at 15 ft bgs in the southwest corner of the UST pit, 480 mg/kg at 15 ft bgs in the southeast corner of the UST pit, and 810 mg/kg at 16 ft bgs from near the middle of the eastern side of the UST pit. Approximately 389 tons of soil and backfill from the UST cavity and product line trenches was excavated during replacement of the UST system in 1998. No detectable concentrations of TPH-G or BTEX in soil were found during drilling of extraction wells EX-1 and EX-2 in 1999, on either north or south sides of the present UST pit. During the 2005 soil and water investigation at the Site, low to significant concentrations of petroleum hydrocarbons were detected in soil samples during drilling of borings A-2, A-3, A-4, and A-5. TPH-G was detected at 120 mg/kg in boring A-2 at 30-30.5 ft bgs, 220 mg/kg in boring A-3 at 26-26.5 ft bgs, and 490 mg/kg in boring A-4 at 23.5-24 ft bgs. The available information seems to indicate that the majority of soil contamination is located under the vicinity of the southern dispenser islands.

3.4 Distribution of Hydrocarbons in Ground Water

The highest hydrocarbon concentrations in ground water have been found in the area below the southern dispenser island in wells MW-2, MW-4, and EX-1. As Separate Phase Hydrocarbons (SPH) were historically detected in well MW-2 between 1993 and 1998, samples were not routinely analyzed. When samples were analyzed, concentrations of TPH-G/GRO in well MW-2 ranged from 3,700 µg/L to 560,000 µg/L. Similarly, concentrations of Benzene and MTBE have ranged between 190 µg/L to 32,000 µg/L and 826 µg/L to 95,000 µg/L, respectively, from well MW-2. Similarly, measurable SPH was reported in well MW-4 in September 2001. Otherwise, concentrations of TPH-G/GRO in well MW-4 have ranged from 2,700 µg/L to 7,400,000 µg/L, while concentrations of Benzene and MTBE have ranged between 23 µg/L to 60,000 µg/L and 120

Corrective Action Plan Former BP Service Station No. 11117 December 2006 Page 7 of 15

 $\mu g/L$ to 92,000 $\mu g/L$, respectively, from well MW-4. Concentrations of TPH-G/GRO in well EX-1 have ranged from 3,500 $\mu g/L$ to 22,000 $\mu g/L$, while concentrations of Benzene and MTBE have ranged from <25 $\mu g/L$ to 3,200 $\mu g/L$ and 1,100 $\mu g/L$ 3,000 $\mu g/L$, respectively.

High concentrations of petroleum hydrocarbons were also discovered in ground-water samples collected in 2005 from Hydropunch borings. Again, the highest concentrations appeared to be located under the southern end of the Site, southwest to southeast of the southern dispenser island at the Site. Boring A-2 southwest of the southern pump island detected concentrations of GRO at 510,000 μ g/L, Benzene at 1,800 μ g/L, and MTBE at 110 μ g/L. Boring A-3 in the southern corner of the Site south of the southern pump island detected concentrations of GRO at 25,000 μ g/L, Benzene at 21 μ g/L, and MTBE at 8.3 μ g/L. Boring A-4 southeast of the southern pump island and adjacent to well MW-4 detected concentrations of GRO at 150,000 μ g/L, Benzene at 11,000 μ g/L, and MTBE at 39,000 μ g/L. Based on a review of the data from the 2005 investigation, URS concluded that the lateral extent of dissolved phase hydrocarbons in soil and ground water had been completed. The horizontal extents of GRO, Benzene, and MTBE in ground water are exhibited in iso-concentration contour maps, provided as Figure 3, Figure 4, and Figure 5, respectively.

3.5 Hydrocarbon Trends in Ground Water

Trends in depth to the potentiometric ground-water table and hydrocarbon concentrations in ground water were created from the historic data in Table 1. Figure 7 presents a chart of historic TPH-G/GRO, Benzene, and MTBE concentrations in samples from well MW-2. Figure 8 presents a chart of historic TPH-G/GRO, Benzene, and MTBE concentrations in samples from well MW-4. As can be seen in Figure 7 and Figure 8, concentration trends of hydrocarbons have been mostly stable with some notable exceptions. Concentrations of TPH-G/GRO, Benzene, and MTBE were simultaneously reduced several orders of magnitude in June 2002 in well MW-2 (Figure 7). It is unknown whether this observation was attributed to DPE testing in November 2001. Concentrations of TPH-G/GRO, Benzene, and MTBE were similarly reduced several orders of magnitude in well MW-4 in May 1999. It is not known with certainty whether this observation was an effect attributed to ground water recovery testing conducted in April 1999. In addition, it is not known with certainty the reasons for the relatively low concentration of MTBE in May 2004, or highly elevated concentration of GRO in November 2004 for well MW-4. However, these reported concentrations do not seem wholly consistent with hydrocarbon trends at the Site.

4.0 PREFERENTIAL PATHWAY ANALYSIS

An underground utility site survey was conducted in October 2000 by Alisto Engineering Group to identify potential man-made migration pathways and conduits, and to assess whether preferential pathways and conduits may promote the migration of petroleum hydrocarbons. An additional underground utility survey was recently conducted by URS Corporation to augment the previous survey and verify the depths of the underground utilities in the area of the Site. A map showing the locations of the underground utilities in the area of the Site is presented in Appendix D. As mentioned previously, geologic cross-sections showing the locations and depths of the underground utilities in the Site vicinity are presented in Appendix C. Based on the locations and relatively shallow depths of the underground utilities (maximum depth of approximately 10 ft), the lithology and the typical depth to water at the Site (dependably between approximately 12 and 34 ft bgs, but typically between 15 to 20 ft bgs), man-made preferential dissolved petroleum hydrocarbon migration pathways and conduits are unlikely to exist on or off the Site.

5.0 SENSITIVE RECEPTORS

In October 2000, Alisto Engineering Group completed a potential receptor survey, prepared an expanded site plan with neighboring property parcel information and underground utilities mapped, and identified wells in the vicinity of the Site. A review of the files of the California Department of Water Resources (DWR) was performed to identify all known wells within a one-half mile radius of the Site. The results of the well search revealed that there were 17 wells other than the onsite monitoring wells. Of these, 11 were offsite monitoring wells, four were cathodic protection wells, one an industrial well, and one an irrigation well for a nearby cemetery. No domestic/municipal water supply wells were identified from review of the DWR files. Copies of the completion logs from the DWR files for these wells are contained within the 19 October 2000 Alisto report.

6.0 RISK ASSESSMENT

A formal risk assessment has not been performed, nor is this section proposed to take the place of one. To have some understanding of the risks posed by contamination at the Site and approximate target concentrations for contamination cleanup however, hydrocarbon concentrations in soil and ground water were compared to the Environmental Screening Levels (ESLs) in the California Regional Water Quality Control Board's (RWQCB) Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1, Summary Tier 1 Lookup Tables, Interim Final – February 2005. Although the historic past use of the Site is unknown, anticipated future Site activities and use will most probably remain commercial/industrial as at present, due in part to its high-visibility location to traffic at the corner of a principal street with a main regional thoroughfare. Therefore, the ESLs scenario that was considered in the lookup tables was for impacted shallow soil (less than approximately 10 ft bgs) under commercial/industrial land use with ground water not a current or potential source of drinking water. According to the East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, the City of Oakland does not have "any plans to develop local ground-water resources for drinking water purposes, because of existing or potential saltwater intrusion, contamination, or poor or limited quantity." However, the San Francisco RWQCB's basin plan denotes existing beneficial uses of municipal and domestic supply (MUN), industrial process supply (PROC), industrial service supply (IND), and agricultural supply (AGR) for the East Bay Plain ground-water basin.

Chemicals of potential concern are those hydrocarbons previously detected above background in soil and ground-water monitoring conducted at the Site. This list includes the compound identified as TPH-G/GRO, and the fuel constituents or additives Benzene, Toluene, Ethylbenzene, total Xylenes, MTBE, tert-Butyl Alcohol (TBA), and Tert-Amyl Methyl Ether (TAME). There is currently no ESL for TAME. However, it is believed likely that the higher concentrations of TPH-G/GRO, Benzene, and MTBE, will drive the scope and level of remediation. The relevant soil and ground-water ESLs for the Site are summarized below. As recommended in the referenced document, ESLs for residential land use are provided for comparison.

		TPH-G/			Ethyl-			
Matrix	Units	GRO	Benzene	Toluene	benzene	Xylenes	MTBE	TBA
Shallow Soil – Residential Use (<3m bgs)	mg/kg	100	0.18	9.3	32	11	2.0	57
Shallow Soil – Commercial Use (<3m bgs)	mg/kg	400	0.38	9.3	32	11	5.6	110
Ground Water	μg/L	500	46	130	290	100	1800	18000

7.0 REMEDIAL ACTIONS TAKEN

As mentioned previously in Section 2.2, during the 1998 UST replacement activities approximately 389 tons of excavated soil and backfill were transported offsite for disposal. TPH-G concentrations within soil stockpile samples ranged from 2.0 to 19 mg/kg, with an average concentration of 8.8 mg/kg TPH-G. Benzene concentrations ranged from non-detect (<0.0050 mg/kg) to 0.022 mg/kg, with an average concentration of 0.0095 mg/kg. MTBE was not analyzed for or reported.

As an interim remedial measure, Cambria Environmental Technology of Oakland and Onyx Industrial Services of Benicia, California conducted weekly vacuum extraction events from wells EX-1, EX-2 and MW-2 on March 16, March 23, March 30, April 6, April 27, and April 28, 2000. Laboratory analytical results of samples collected before and after most of the events showed that impacted ground water with significant and relatively stable concentrations of petroleum hydrocarbons was being extracted: TPH-G concentrations averaged 125,000 µg/L from MW-2, 44,000 µg/L from EX-1, and 250 µg/L from EX-2; Benzene concentrations averaged 15,000 µg/L from MW-2, and 4,700µg/L from EX-1, but <0.5 µg/L from EX-2; MTBE concentrations averaged 28,000 µg/L from MW-2, 5,700 µg/L from EX-1, and 790 µg/L from EX-2. Between 900 and 1,700 gallons were extracted from the wells during each event, for a total of approximately 10,900 gallons extracted. However, no estimate of gallons extracted from each well per event was reported. Therefore, total pounds of petroleum contaminants removed were not able to be calculated.

Between 29 October and 2 November 2001, a Dual-Phase Extraction pilot test was performed on monitoring wells with the highest historical hydrocarbon concentrations (i.e. MW-2 and MW-4) and the extraction wells (EX-1 and EX-2). During the first day of testing, step vacuum tests were conducted on the four wells. Field measurements of organic vapors from wells MW-4 and EX-1 increased to more than 13,000 parts per million by volume (ppmv) with increasing applied vacuum. Field organic vapor readings for wells MW-2 and EX-2 were generally less than 1,000 ppmv and did not show a systematic variation with applied vacuum. Constant vacuum tests were performed during the remaining four days of pilot testing; three days on well MW-4 and an eight hour test on well EX-1. Due to the observed SPH sheen and proximity to wells MW-4 and EX-1, a short-duration (50-minute) constant vacuum test was conducted on well MW-2. During the step vacuum tests, the estimated vapor-phase hydrocarbon removal rates were less than five pounds of hydrocarbon per day at wells MW-2 and EX-2, less than 31 pounds of hydrocarbon per day at well MW-4, and less than 160 pounds of hydrocarbon per day at well EX-1. During the constant vacuum tests, the estimated hydrocarbon removal rates ranged from approximately 21 to 194 pounds of hydrocarbon per day at well MW-4, and 49 to 193 pounds of hydrocarbon per day at well EX-1. These removal rates were based on field readings of organic vapors, which included a combined measure of soil vapors and hydrocarbons stripped from ground water under vacuum. Following the conclusion of the DPE pilot test, approximately 6,500 gallons of extracted ground water containing 26,000 µg/L GRO, 890 µg/L Benzene, and 9,500 µg/L MTBE was transported from the Site for offsite treatment and disposal.

8.0 SCREENING OF REMEDIATION TECHNOLOGIES

The technologies listed in the Central Valley Regional Water Quality Control Board 16 April 2004 Appendix A – Reports Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites are screened for viability in this section. In addition to the technologies listed, a No-Action option will be evaluated. The No-Action option is typically included in feasibility studies to represent the baseline do-nothing action for comparison purposes. The technologies assessed in this initial screening are listed in the matrix below. Also presented is the media each technology would address.

Summary of Technologies Evaluated

	M	edia
Technology	Soil	Water
No Action	Х	Х
Excavation	Х	
Soil Vapor Extraction	X	
Bioventing	X	
Bioremediation	X	X
Ground Water Extraction and Treatment		X
Biosparging		X
In-Situ Oxidation		X
Dual-Phase Extraction and Treatment	X	Х
Monitored Natural Attenuation		X

8.1 No Action and Monitored Natural Attenuation

Based on the hydrocarbon concentration trends in ground water, the no action option or a remediation strategy that employs monitored natural attenuation (MNA) would not be expected to be acceptable to ACEH unless implemented in conjunction with an active form of remediation or unless MNA-specific monitoring indicates that natural attenuation processes are occurring at the Site. The no-action option is retained as a baseline for comparison. MNA is retained for possible combination with other active technologies.

8.2 Excavation, Soil Vapor Extraction, and Bioventing

At this time, deeper soil impacts are known to exist in the vicinity of the southern dispenser. These technologies would not address the significant concentrations of hydrocarbons in ground water at the Site. The technologies specific to soil – excavation, soil vapor extraction (SVE), and bioventing – are therefore screened from consideration at this time. These technologies may be reassessed at a future date, however, if future data indicates a change in the status of the impacts and if the work could be performed to coincide with an action such as a line upgrade where excavation or drilling activities would not disrupt station operations.

8.3 Bioremediation

Bioremediation can be promoted in ground water through a variety of techniques, including bioaugmentation, or nutrient addition. For petroleum hydrocarbon sites, bioremediation is typically a component of MNA, SVE, bioventing, biosparging, in-situ oxidation, and DPE. This technology is retained for use in conjunction with other technologies, but will not be implemented as a stand-alone technology.

8.4 Ground Water Extraction and Treatment

In Ground Water Extraction and Treatment (GWET), ground water is pumped through a series of canisters containing activated carbon to which dissolved organic contaminants adsorb. This technology requires periodic replacement or regeneration of saturated carbon. Costs are typically high if used as the primary treatment on waste streams with high contaminant concentration levels. GWET will not be retained for further evaluation based on poor cost-effectiveness when compared to other technologies.

8.5 Biosparging

In biosparging, air is injected under pressure below the water table to increase ground water oxygen concentrations and enhance the rate of biological degradation of organic contaminants by naturally-occurring microbes. Biosparging increases mixing in the saturated zone, which increases the contact between ground water and soil. The ease and low cost of installing small-diameter air injection points allows considerable flexibility in the design and construction of a remediation system. Biosparging is a full-scale technology.

The following general factors may limit the applicability and effectiveness of the process:

- A permeability differential, such as a clay layer, above the air injection zone can reduce the effectiveness of biosparging.
- Where vertical air flow is restricted due to the presence of less permeable strata, sparging can push
 contaminated ground water away from the injection point. In these cases, a ground water recovery
 system may be needed.
- Vapors may rise through the vadose zone and be released into the atmosphere.

The predominant clay layer from the surface to ground water in the presumed source area near the southern dispenser island is thought to reduce the likely effectiveness of biosparging at the Site. Therefore, biosparging will not be retained for further evaluation.

8.6 In-Situ Oxidation

In-situ oxidation encompasses a wide range of technologies, including liquid chemical oxidant injection (e.g., hydrogen peroxide) and injection of air or ozone into the subsurface. The objective is to increase the oxygen content of ground water and enhance the rate of aerobic degradation of organic contaminants by naturally occurring microbes. For best results, factors that must be considered include redox conditions, saturation rates, presence of nutrient trace elements, pH, temperature, and permeability of the subsurface materials. In-Situ Oxidation is a full-scale technology.

The following general factors may limit the applicability and effectiveness of the process:

- A ground-water circulation system may need to be created so that contaminants do not escape from zones of active biodegradation.
- Where the subsurface is heterogeneous, it is difficult to circulate the oxygenated solution throughout every portion of the contaminated zone. Higher permeability zones are cleaned up much faster because ground water flow rates are greater.
- High iron content in subsurface materials can rapidly reduce concentrations of oxygenated solutions.
- Amended hydrogen peroxide can be consumed very rapidly near the injection well, which can create
 two significant problems: biological growth can be limited to the region near the injection well,
 limiting adequate contamination/micro-organism contact throughout the contaminated zone; and
 biofouling of wells can retard the input of nutrients.
- A surface treatment system, such as air stripping or carbon adsorption, may be required to treat extracted ground water prior to re-injection or disposal.

In-situ oxidation is a potentially effective treatment technology for the Site and will be retained for further evaluation and comparison of viable treatment alternatives.

8.7 Dual-Phase Extraction and Treatment

In DPE, a high vacuum system is applied to simultaneously remove liquid and gas from low permeability or heterogeneous formations. The vacuum extraction well(s) include a screened section in the zone of contaminated soils and ground water. As vacuum is applied to an extraction well, soil vapor is extracted, and ground water is entrained by the extracted vapors. Once above grade, the extracted vapors and ground water are separated and treated. DPE is a full scale technology.

Results of pilot testing in Fall 2001 indicate that DPE and treatment is a feasible remedial alternative for the Site.

9.0 ALTERNATIVES EVALUATION

Based on the initial technology screening above, the following technologies have been retained to assemble the alternatives that will be evaluated:

- Alternative 1: No Action/MNA
- Alternative 2: In-Situ Oxidation
- Alternative 3: DPE

Using the July 1993 joint US EPA/US Air Force *Remediation Technologies Screening Matrix and Reference Guide*, each of the alternatives are evaluated against the following screening factors:

- Overall Cost? Design, construction, and operation and maintenance (O&M) costs of the core
 process that defines each technology, exclusive of mobilization, demobilization, and pre- and posttreatment costs.
- Capital or O&M Intensive? Is the technology capital-intensive, with significant costs for design and construction; O&M-intensive, with significant costs for labor, operation, maintenance, and repair; both; or neither?
- Commercial Availability? Relative number of vendors that can design, construct, and maintain the technology.
- Typically Part of a Treatment Train? Is additional treatment necessary, after the use of this technology, to clean up the contaminated media?
- Residuals Produced (Solid, Liquid, Vapor)? If use of the technology produces residuals that require management, are they solids, liquids, or vapors?
- Minimum Contaminant Concentration Achievable? Minimum contaminant concentration achievable by the technology, measured in mg/kg for soil technologies, μg/L for ground water, and mg/kg and μg/kg for air emissions/off-gases.
- Addresses Toxicity, Mobility, or Volume? What parameter(s) of the contaminated media toxicity, mobility, or volume – is the technology primarily designed to address?
- Long-Term Effectiveness/Permanence? Does use of the technology maintain protection of human health and the environment, over time, after cleanup objectives have been met?
- Time to Complete Cleanup? Time required to clean up a "standard" site using the technology ("Standard" site is 20,000 tons for soil and 1,000,000 gallons for ground water).

- System Reliability/Maintainability? Degree of system reliability and level of maintenance required when using the technology.
- Awareness of Remediation Consulting Community? Degree to which the technology is known to remediation consultants.
- Regulatory/Permitting Acceptability? Degree to which use of the technology is acceptable to regulating and permitting agencies.
- Community Acceptability? Degree to which use of the technology is acceptable to the public.

The following table presents relative ratings per screening factor for the three alternatives retained from the screening process above. The relative ratings are from the previously referenced US EPA/US Air Force guide.

Screening Factor	No Action/MNA	In-Situ Oxidation	DPE
Overall cost	Better	Average	Average
Capital or O&M intensive?	O&M	O&M	O&M
Commercial availability	Not Applicable	Better	Better
Typically part of a treatment train?	No	No	Yes
Residuals produced?	None	None	Liquid, Vapor
Minimum contaminant concentrations achievable	Worse	Better	Average
Addresses toxicity, mobility or volume?	None	Toxicity	Volume
Long-term effectiveness/permanence	No	Yes	Yes
Time to complete cleanup	Worse	Average	Average
System reliability/ maintainability	Better	Worse	Average
Awareness of remediation consulting community	Better	Better	Better
Regulatory/permitting acceptability	Worse	Average	Average
Community acceptability	Worse	Better	Better

10.0 RECOMMENDED APPROACH

Based upon the alternatives evaluation, the proposed remedy for implementation at Station No. 11117 is Alternative 3: DPE. Adding to its favor is the fact that pilot testing has proven DPE a viable treatment technology at the Site.

11.0 CLOSURE

The findings presented in this document are based upon: observation of field personnel from previous consultants, the points investigated, and results of laboratory tests performed by various laboratories. Our services were performed in accordance with the generally accepted standard of practice at the time this document was written. No other warranty, expressed on implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

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LIST OF TABLES

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Table 2. Summary of Fuel Additives Analytical Data

Table 3. Historical Ground-Water Flow Direction and Gradient (with Rose Diagram)

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	itions in (μ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	рH	Comments
EX-1			***												
05/04/2004	р		16.29			12,000	2,300	430	740	1,100	2,500		SEQM	6.8	h
08/31/2004	P		19.39	. —	_	13,000	2,500	95	650	1,500	2,100	· -	SEQM	6.7	h
11/23/2004	P		17.90			13,000	2,700	94	460	1,700	3,000		SEQM	6.9	
01/18/2005	P		14.20		_	16,000	2,100	390	570	2,500	2,200	<u> </u>	SEQM	6.6	
06/29/2005	P		14.22			6,400	1,100	52	280	790	1,400		SEQM	7.2	
09/01/2005	P		17.22			7,900	. 2,000	94	400	870	2,000	_	SEQM	6.7	
11/03/2005	P		19.92		-	22,000	3,200	640	550	3,300	3,000	0.88	SEQM	6.8	
02/14/2006	P		15.40	-	-	3,500	<25	<25	<25	74	1,100	-	SEQM	6.8	
5/30/2006	P	Colored to the Colore	13.43		The state of the s	8,600	1,400	120	490	1,300	1,400	-	SEQM	6.8	
8/29/2006	-	-	17.74	-		22,000	2,900	210	1,400	3,600	2,500	- :	TAMC	6.9	
EX-2															
05/04/2004	P		16,65			<50	0.63	<0.50	<0.50	0.66	46		SEQM	6.7	
08/31/2004	P		19.90		-	<250	<2.5	<2.5	<2.5	<2.5	130		SEQM	6.9	h
11/23/2004	P		18,36			<50	0,74	<0.50	0.83	3.0	5.8		SEQM	6.6	
01/18/2005	P	-	14.67	-:	-	<50	<0.50	<0.50	<0.50	0.69	6.5		SEQM	6.5	and the state of t
06/29/2005	P		14.60		_	<50	<0.50	<0,50	<0.50	0.50	24		SEQM	6,8	5
09/01/2005	P	_	17.28	-	-	<50	<0.50	1.4	<0.50	1.4	55		SEQM	7.0	
11/03/2005	Р		20,42	-		<50	0.50	<0.50	<0.50	1.4	39	0.77	SEQM	6.9	
02/14/2006	P	-	14.54	-	-	220	<0.50	3.2	7.5	33	0.72		SEQM	7.0	
5/30/2006	P		13.35			<50 ∷	<0.50	<0.50	<0.50	0,70	7.8		SEQM	6.9	
8/29/2006	-		17.92			66	0.67	<0.50	0.79	1.9	94	-	TAMC	7.0	
MW-1													erkemininusis + + + + + + + + + + + + + + + + + +		
1/5/1992		49.8	33.16		16.64	57,000	2,400	1,000	1,100	3,100		-			
1/10/1992		49.8	33.16		16.64	_		— 		-					
6/5/1992		49.8	29.01		20,79	31,000	2,800	2,100	800	2,300		denid			
7/24/1992	<u> </u>	49.8	29.45	_:	20.35		<u> </u>	'							Agranisansum uport eta teletitist eta eta eta eta eta eta eta eta eta et
7/27/1992		49.8	29,45		20.35						-				
9/15/1992		49.8	30,53		19.27	40,000	3,400	3,000	1,300	3,400		jamanga ngan	ANA	-	C Le sson estatue de S omporto de la Celu
9/15/1992						36,000	3,800	3,400	1,400	3,800			ANA		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	ıtions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	ТРН	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	рH	Comments
MW-1 Cont.															
12/15/1992		49.8	31.26		18.54	27,000	1,700	580	700	1,900			ANA		c c
12/15/1992			_	_	-	22,000	1,500	440	510	1,300	- .		ANA		d
3/15/1993		-				15,000	1,100	860	440	1,400			PACE		d, 1
3/15/1993	_	49.8	24.8	ernen uin au etarie autoria in au inniuento ************************************	25	17,000	1,700	1,200	590	1,800	in three words have the seal to the	-	PACE	_	• 1
6/7/1993		49.8	25.01		24.79	750	0.8	0.8	<0.5	<0.5			PACE		1
6/7/1993		-				720	0.7	0.7	<0.5	<0.5	enineli esiment maretas teta albes	-	PACE	_	d, l
9/23/1993		49.8	28.7		21.1	40,000	4,000	500	920	3,000	6,619		PACE		e, I
12/27/1993	_	_	-			21,000	1,700	380	830	2,400	9,219		PACE	-	e,l, d
12/27/1993		49.8	28.66		21,14	27,000	2,000	400	940	2,600	13,558		PACE		e, I
4/5/1994						29,000	3,700	1,000	1,000	3,100	9,672	1.3	PACE		e,l, d
4/5/1994		49.8	26,37		23,43	27,000	3,400	930	950	2,900	8,595		PACE		e,l,
7/22/1994		49.8	26,54		23.26	1,700	220	2.3	2	3.4	262	2,0	PACE	-	e,I
10/13/1994		49.8	27.46		22,34	1,200	250	21	<0.5	3.2	321	2.6	PACE		eil
1/25/1995		49.8	20.96		28.84	1,000	420	8	13	4			ATI		
4/19/1995		49.8	19.59		30.21	5,200	420	51	230	340		6.0	ATT		
7/5/1995		49.8	19.61	-	30.19	320	4.2	<0.50	<0.50	<1.0		4.6	ATI		
10/5/1995		49.8	24.4		25,4	5,800	1,000	40	31	180	7,800	2.3	ATI		
1/12/1996		49,8	25.44	_	24.36	370	<0.50	<0.50	<0.50	<1.0	<5.0	3.7	ATI		
4/22/1996	_	49.8	18.02		31.78	<50	<0.5	<1	<1	<1	<10	3.9	SPL	<u></u> -	
7/2/1996		49.8	19.72	_	30.08			-		-	-	-	-		
7/3/1996		49.8	7			<250	<2.5	<5	<5	ত	<50	3.6	SPL		
11/8/1996		49.8	19.98	_	29.82	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	SPL		
1/3/1997		49.8	19,49		30.31	<50	<0.5	14	<1.0	<1.0	<10	4.6	SPL		
4/28/1997		49.8	20.2	-	29.6	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		
7/1/1997		49.8	22.53		27.27	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		
10/2/1997		49.8	24.27	-	25.53	<50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL		
1/9/1998		49.8	21,07	•	28.73	< 50	<0.5	<1.0	<1.0	<1.0	<10	4.2	SPL		
5/6/1998		49.8	14.94		34.86	60	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL	-	
7/21/1998		49.8	15.11	-	34.69	70	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
12/30/1998	-	49.8	19.95	-	29.85	-	_	_		-					
2/2/1999		49,8	19.12		30.68	420	<1.0	<1.0	<1.0	<1.0	390		SPL	::::::::::::::::::::::::::::::::::::::	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level	vel Concentrations in (μg/L)							•		
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyi-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	МТВЕ	DO	Lab	pН	Comments
MW-1 Cont.															
5/10/1999	20 4 60	49.8	15,51		34.29										
9/23/1999		49,8	21.65	<u> </u>	28.15	440	49	<1.0	<1.0	<1.0	910		SPL	-	
12/23/1999		49.8	22,32		27.48		e de la companya de La companya de la companya de l	1 - 12 12 - 12 12 12 12 12 1							
3/27/2000	-	49.8	15.72	-	34.08	2,500	230	3	83	36	4,400	_	PACE	-	The same and some plants are seen as the second
5/22/2000		49.8	16.92		32,88										
8/31/2000	_	49.8	20.12	-	29.68	1,700	18	5.5	7.9	5	510		PACE		
12/11/2000		49.8	20.72		29.08										
3/20/2001		49.8	15.91	_	33.89	880	38.2	<0.5	24.1	<1.5	391	-	PACE	-	
6/19/2001		49.8	18.38		31,42	-									
9/20/2001		49.8	21.23	_	28.57	3,200	400	19.8	42	32.5	2,510	-	PACE		
12/27/2001		49.8	16.72		33.08	750	70.1	0.536	4.74	3.76	649		PACE		
2/28/2002		49.8	15.25	144	34,55	<50	<0.5	<0.5	<0.5	<1.0	8.7	_	PACE		
6/28/2002		49.8	16.57		33.23	110	0.977	<0.5	0.818	<1.0	8,35		PACE		
9/12/2002	-	49.8	18.41	l -	31.39	98	2.7	1.5	1,5	5.4	48	_	SEQ	6.9	
12/12/2002		49.8	20,26		29.54	210	1.9	<0.50	<0,50	<0,50	32		SEQ	6.8	
3/10/2003		49.8	16.22		33.58	<50	<0.50	<0.50	<0.50	<0.50	3.2		SEQ	6.9	
5/12/2003		49.8	14,3		35.5	<50	<0.50	<0.50	<0.50	<0,50	<2,5		SEQ	7.1	
8/27/2003	<u> </u>	49.8	18.15		31.65	<50	<0.50	<0.50	<0.50	<0.50	4.2		SEQ	7.1	n
11/10/2003	P	49,80	19,24		30,56	<50	<0.50	<0.50	<0.50	<0.50	0.51		SEQM	6.8	
02/03/2004	P	49.80	14.84		34.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50		SEQM	7.0	
05/04/2004	P	49,80	14,67		35.13	<50	<0,50	<0.50	<0.50	<0,50	<0.50		SEQM	7.1	
08/31/2004	P	49.80	17.75		32.05	<50	<0.50	<0.50	<0.50	<0.50	0.50		SEQM	7.1	
11/23/2004		49.80	16.03		33.77										
01/18/2005	P	49.80	12.47		37.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50		SEQM	6.9	To and inflict the Market and State Market at the control of the control of
06/29/2005		49.80	12.65	-	37.15								-		
09/01/2005		49.80	15,79		34.01	-	-			_			-	 rditaeroas	
11/03/2005		49,80	18.55		31,25			(:):::::::::::::::::::::::::::::::::::	. (40 to 24 ± 4 to 25 t	1997 1797			-		
02/14/2006	P	49.80	12.29		37.51	51	<0.50	<0.50	<0.50	<0.50	<0.50	-	SEQM	7.0	W mangooni na magaaggayaagoya
5/30/2006		49,80	12.15		37.65							-	-		
8/29/2006	-	49.80	16.37		33.43			-	_	_	_				

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level	100									
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(fect msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	МТВЕ	DO	Lab	pH	Comments
MW-2					A CONTRACTOR OF THE CONTRACTOR										
1/5/1992		51,07													
1/10/1992		51,07				<u> </u>		——————————————————————————————————————	-	inis en annifornia		-		_	raina mina arip, annarappjagagga r
6/5/1992		51,07	30.05		21,02	11,000	2,000	180	490	1,900			= :		
7/24/1992	— .	51.07	30.72	ist. antainti apair	20.35	_	<u>-</u>	-						**************************************	rautulus (1), llutulus vailli, talus valsi täsuksistä lähiksi
7/27/1992		51.07	30,52		20.55										
9/15/1992	_	51.07	31,56	_	19,51	75,000	2,000	6,500	2,300	13,000		-	ANA	–	C .
12/15/1992		51.07	32,4		18.67	34,000	6,200	8,900	2,000	7,900	7.5		ANA		
3/15/1993	-	51.07	26.14	-	24.93	150,000	12,000	18,000	3,200	22,000	82,000	-	PACE	-	e
6/7/1993		51.07	26.38		24.69										γ
9/23/1993	_	51.07	31.43	_	17.72	-		_		- :		_	. ==		f
12/27/1993		51,07	34,07		15,93										f
4/5/1994	_	51.07	30.44		17.33		-	-		-		-		-	f
7/22/1994		51.07	28.51		21.76									-	ſ
10/13/1994		51.07	29.33		21.04		- :		:	mesomment.					$rac{\mathbf{f}}{\mathbf{f}}$
1/25/1995		51.07	25,55		21.27			,						-	
4/19/1995		51.07	19.78		31.17	— Historiani dilik			acongonogonous				 :::::::::::::::::::::::::::::::::::	-	f communication reported the following temperature
7/5/1995		51.07	20.88		30.1	140,000	14,000	30,000	3,500	26,000		Π	ATI		
10/5/1995		51.07	24.68		26.29			- manuficiani.	<u> </u>						f
1/12/1996		51.07	25.72		25,29		***************************************								f f
4/22/1996	— ::::::::::::::::::::::::::::::::::::	51.07	19.33		31.66 31.02			. -		_ 				 	
7/2/1996 11/8/1996		51,07 51,07	20.01 20.28		30.78										f
1/3/1997	 44240	51.07 51.07	19.87		31.18										
4/28/1997		51.07	20.59		30.47	560,000	1,200	1,300	290	2,310	6,100	3.9	SPL		
7/1/1997		71.07			70.47	150,000	14,000	13,000	1,800	14,200	57,000	- .,	SPL		
7/1/1997		51.07	22.9		28,16	24,000	15,000	16,000	4,900	24,400	63,000	3.7	SPL		
10/2/1997		51.07	24.65		26.4	21,000	15,000	,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 1, 100				4.5	
10/3/1997		51.07				250,000	32,000	39,000	6,000	42,000	160,000	4.5	SPL		
1/9/1998						300,000	20,000	25,000	5,200	37,000	84,000		SPL		7 .
1/9/1998	ralijaras ji. ••	51.07	21.22		29.84	420,000	23,000	29,000	5,800	43,000	75,000	4.0	SPL	_	enearonnad keidoldis Jankobs Votel (1807)
2/2/1998		51.07	20.11		30.96	410,000	27,000	43,000	6,700	50,000	20,000		SPL		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level										
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(fect)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	МТВЕ	DO	Lab	pН	Comments
MW-2 Cont.															***************************************
5/6/1998		51.07	15.1		35.96	180,000	25,000	26,000	3,400	22,900	35,000	3,7	SPL		
7/21/1998		51.07	15.31		35.75	270,000	21,000	20,000	2,700	18,800	34,000	3,8	SPL	.	
12/30/1998		51.07	21.1		29.87	300,000	22,000	24,000	4,200	26,000	89000/95000		SPL		
5/10/1999	-	51.07	16.68	_	34.39	220,000	20,000	20,000	2,800	20,000	100,000		SPL	: -	
9/23/1999	u Kilindelda Buringalah	51,07	22.5		28,57	160,000	21,000	24,000	2,900	20,000	44,000		SPL		
12/23/1999		51.07	22.64	-	28,43	170,000	25,000	41,000	3,100	24,000	40,000		PACE		k
3/27/2000		51,07	16.88	7.70.0 \$ 00.007 1015 F 1015 1015 1015 1015 1015 1015 10	34,19	140,000	15,000	25,000	3,400	21,000	19,000		PACE		
5/22/2000		51.07	17.75	- · · ·	33.32	150,000	18,000	31,000	3,500	22,000	26,000		PACE		File of the second and the second second
8/31/2000		51.07	21.97		29.1	200,000	16,000	26,000	2,500	16,000	38,000	li - III	PACE		
12/11/2000		51.07	22.05	- : 	29.02	130,000	18,600	30,000	3,250	20,600	21,700		PACE		A THE PROPERTY OF THE PROPERTY
3/20/2001		51.07	17,75	il i i i i i i i i i i i i i i i i i i	33.32	140,000	15,900	24,800	3,700	22,100	12,900		PACE		
6/19/2001		51.07	20.15	÷	30.92	130,000	15,100	19,500	3,300	21,400	20,300		PACE	-	TERM TO THE PERMITTER OF THE PERMITTER O
9/20/2001		51.07	22,14		28.93	110,000	12,400	12,600	2,230	13,000	39,500		PACE		
12/27/2001		51.07	18.17	_	32.9	150,000	17,500	26,000	3,050	19,500	27,500		PACE	· —	TSD DE DE STATE DE LE SE
2/28/2002		51.07	17.42		33,65	120,000	13,900	18,800	3,030	19,600	17,300		PACE		
6/28/2002	 .	51.07	17.04		34.03	3,700	190	23.3	139	287	826		PACE		u .
9/12/2002		51,07	19.52		31.55	100,000	13,000	22,000	3,600	20,000	18,000		SEQ	6.6	
12/12/2002		51.07	21.08	-	29.99	120,000	13,000	21,000	4,400	25,000	16,000		SEQ	6.6	Savanna
3/10/2003		51,07	17.84		33.23	100,000	17,000	21,000	3,400	20,000	4,400		SEQ	6.8	
5/12/2003		51.07	16.66	-	34.41	150,000	16,000	24,000	3,500	22,000	3,600	-	SEQ	7.1	Colonia de la companya de la constitución de la colonia
8/27/2003		51,07	19.65		31.42	120,000	14,000	12,000	3,900	20,000	5,100	-	SEQ	6.9	n
11/10/2003	P	51.07	20.80	· –	30.27	97,000	12,000	9,500	3,600	15,000	4,200	-	SEQM	6.7	one i word one of the property of the Market South
02/03/2004	. .	51.07	16.82		34.25	130,000	14,000	19,000	3,400	20,000	1,900	49.469	SEQM	6.8	
05/04/2004	P	51.07	16.19	-	34.88	120,000	12,000	16,000	3,700	22,000	2,500		SEQM	6.7	E ANTONIO DE CONTROL D
08/31/2004	P	51.07	19.50		31:57	99,000	10,000	13,000	3,700	18,000	3,400		SEQM	6.8	
11/23/2004	P	51.07	18.20		32.87	110,000	8,200	17,000	4,000	23,000	2,400		SEQM	6.7	S
01/18/2005	P	51.07	14,91		36,16	96,000	6,500	14,000	3,500	21,000	3,700		SEQM	6.6	
06/29/2005	P	51.07	13.98		37.09	54,000	6,200	4,900	3,300	12,000	3,600		SEQM	7.3	urrus urris Ameninen en en en en elemente de la filosofia de la filosofia de la filosofia de la filosofia de l La filosofia de la filosofia d
09/01/2005	P	51.07	17.00		34.07	58,000	6,300	6,000	3,300	15,000	5,100		SEQM	7.0	
11/03/2005	P	51.07	20.25	-	30.82	63,000	7,400	3,700	3,300	10,000	3,700	0.66	SEQM	6.7	
02/14/2006	P	51.07	13.72		37,35	97,000	7,500	11,000	4,300	16,000	3,400	-:-	SEQM	6.9	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level	el Concentrations in (µg/L)									
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pН	Comments
MW-2 Cont.															
5/30/2006	P	51.07	13.50		37.57	28,000	5,200	2,500	1,500	3,300	2,300		SEQM	6.7	
8/29/2006	-	51.07	18.16		32.91	65,000	7,200	4,500	3,200	11,000	13,000	-	TAMC	6.7	
MW-3															
1/5/1992	Kuthyl i getali	49,95	33.69		16.26	7,400	790	23	210	40		1			
1/10/1992		49.95	33.74		16.21		-	-			——————————————————————————————————————	- :			
6/5/1992		49.95	29.65		20.3	2,000	130	5.3	93	20					
7/24/1992		49,95	30.14		19.81		<u> </u>	-		-	-		-		
7/27/1992		49.95	30.14		19.81				-	-					
9/15/1992		49.95	31.07		18.88	450	55	3.1	34	7.1	<u>-</u> :		ANA		
12/15/1992		49.95	31.93		18.02	12,000	940	<50	310	120			ANA		C.
3/15/1993		49.95	25.71	-	24.24	<50	<0.5	<0.5	<0.5	<0.5			PACE	<u>-</u>	
6/7/1993	-	49,95	25.8		24.15	150	3.6	<0.5	0.9	1,3			PACE		
9/23/1993	-	49.95	29.18		20.77		-				_		-	-	
9/24/1993		49,95				160	8.4	<0.5	3.7	1.3	153		PACE	=	
12/27/1993		49.95	29.25	- .	20.7	9,400	1,100	48	530	120	2,871	-	PACE	<u> </u>	e,i
4/5/1994		49.95	26.84		23.11	7,000	860	19	330	52	10,414	2.0	PACE	-	
7/22/1994		49.95	26.9		23.11	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	PACE		
10/13/1994		49.95	27,83		22,12	<50	<0,5	<0.5	<0.5	<0.5	<5.0	2.6	PACE		
1/25/1995		49.95	21.65	-	28.3	<50	<0.5	<0.5	<0.5	<1	 rozanska verbakel		ATI	-	
4/19/1995		49.95	19,33		30.62	2,400	170	8	130	27		5.0	ATI		
7/5/1995		49.95	20.27		29.68	<50	<0.50	<0.50	<0.50	<1.0 		4.4	ATI	 (10000000)	
10/5/1995		49.95	23.73	-	26.22	2,300	210	3.1	10	5.1	2,400	4.2	ATI		
1/12/1996	-	49.95	24.84	 tolestavios talestavioses	25.11	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.1	ATI	 spacester:	
4/22/1996		49.95	18.6		31.35	<50	<0.5	<1	<1	4	<10 <10	4.4	SPL		
7/2/1996		49.95	18.88	gagggggggagaa mad 160000	31.07	<50	<0.5	<1	<1	<1	<10 <10	4.2 4.4	SPL SPL		
11/8/1996		49:95	19,14		30,81	<50	<0.5	<1.0	<1.0	<1.0	B15000000000000000000000000000000000000	P#5250360	epienendonanie	dodini.	
1/3/1997		49.95	18.72	— Događeni svetovanja seksti i 1800.	31,23	<50	<0.5	<1.0	<1.0	<1.0	<10	4.6	SPL	ANGUL II.	
4/28/1997		49.95	19.38		30.57	<50	<0.5	⊲0	<1.0	<1.0	<10	4.2	SPL SPL		
7/1/1997		49.95	21.65		28.3	<50	<0.5	<1.0	<1.0	<1.0	<10 <10	3.8	SPL		
10/2/1997	1 -	49,95	23,45		26.5	<50	<0.5	<1.0	<1.0	<1.0	 	4.5	PLL		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	itions in (µ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pН	Comments
MW-3 Cont.															
1/9/1998		49.95	20.1	(447)(8) 4- 867.008;	29.85	<50	<0.5	= <1.0	<1,0	<1.0	<10	4,1	SPL		
5/6/1998		49.95	15.57		34.38	<50	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
7/21/1998		49,95	15.88		34.07	51	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL	22.	
7/21/1998	- -			-		60	<0.5	<1.0	<1.0	<1.0	<10	-	SPL	-	d
12/30/1998		49.95	20.3	and a few shall be a second of the second of	29,65								SPL		
2/2/1999		49.95	19.75		30.2	<50	<1.0	<1.0	<1.0	<1.0	<10	-	SPL	-	
5/10/1999		49.95	16.17		33.78										
9/23/1999	— .	49.95	22.05		27.9	_	-	:	-	-	· -	<u></u>	-	-	Announce for the second state of the second state of the second s
12/23/1999		49.95	22.55		27.4		7				7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1				
3/27/2000	-	49.95	16.4		33.55	350	22	<0.5	<0.5	<0.5	580		PACE	-	Hand Maritta or Clare Constitution Constitut
5/22/2000		49,95	9,49		40,46			<u> </u>			01000 <u>0</u> 0000				
8/31/2000	—	49.95	13.02		36.93	–		-	-	-	T				ŧ
12/11/2000		49.95	13.30		36.65										
3/20/2001		49.95	16.49		33.46	1,000	66.4	0.597	6.96	<1.5	398	-	PACE	_	
6/19/2001		49.95	18.82		31.13					-			-		I have been a second to the se
9/20/2001	_	49.95	21.59		28.36	230	<0.5	0.593	<0.5	<1.5	289	-	PACE	-	
12/27/2001		49.95	17.37		32.58							-	_		
2/28/2002		49.95	15.81	· ·	34.14	<50	<0.5	<0.5	<0.5	<1.0	0.58		PACE		
6/28/2002		49,95	17.09		32,86	- 21 - 2						-			
9/12/2002		49.95	18.8		31.15	52	3.3	8.6	1.7	12	11	-	SEQ	7.0	
12/12/2002		49,95	20.57		29,38		-					-	<u> </u>		
3/10/2003		49.95	16.68	_	33.27	<50	<0.50	<0.50	<0.50	<0.50	<2.5	_	SEQ	7.0	
5/12/2003		49.95	14.72		35.23	-							= -		
8/27/2003		49.95	18.5		31.45	<50	<0.50	<0.50	<0.50	0.5	<0.50			7.1	n j
11/10/2003		49.95	19.66		30.29				L			-			
02/03/2004	P	49.95	15.33		34.62	<50	<0.50	<0.50	<0.50	<0.50	<0.50	_	SEQM	7.0	
08/31/2004	P	49,95	18.13		31.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50		SEQM	7.1	
11/23/2004	-	49.95	16,48	-	33.47		–				-	_			
01/18/2005	Р	49.95	13.06		36.89	<50	<0,50	<0.50	<0.50	<0,50	<0.50	-	SEQM	6.9	
06/29/2005	_	49.95	13.00		36,95			-	-			-	-		ananan anan anan anan anan an
09/01/2005		49.95	16.00		33.95			-		-		-			

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses

Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level	Level Concentrations in (µg/L)									
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	рĦ	Comments
MW-3 Cont.															
11/03/2005		49.95	18.91		31.04										
02/14/2006	P	49.95	12.90		37.05	86	<0.50	<0.50	<0.50	0.55	<0.50	EPENERATO:	SEQM	7.3	
5/30/2006		49,95	12.55		37,40										
8/29/2006		49.95	16.68	-	33.27		_	- :		_		-	-		
MW-4															
7/24/1992		50,76	30.02		20,74	42,000	3,200	3,600	1,400	4,100			-		
7/27/1992	•• '	50.76	30.02		20.74		-	–	-		-				
9/15/1992		50,76	31.14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19.62	55,000	7,600	13,000	2,800	9,500			ANA		C
12/15/1992	_	50.76	31.98	_	18.78	36,000	3,700	4,700	1,200	4,000		-	ANA		C C
3/15/1993		50.76	25.34		25,42	69,000	7,600	15,000	2,500	11,000			PACE		
6/7/1993		50.76	25.67		25,09	73,000	10,000	19,000	3,400	14,000	-		PACE		1
9/23/1993		50.76	29.37		21.39										
9/24/1993	'		—	non management continuous continu		59,000	5,300	10,000	2,200	8,400	309		PACE		d
9/24/1993		50.76				68,000	11,000	2,100	8,600	990	390		PACE		
12/27/1993	 Jampassadask	50.76	29.4		21.36	32,000	2,500	4,400	1,300	4,400	387	inglandernes	PACE	, 	1
4/5/1994		50.76	27,09		23.67	64,000	6,500	14,000	1,900	9,600	413	1:4	PACE		
7/22/1994 7/22/1994		- Entire	bere regiongeromes			85,000	11,000	21,000	3,300	14,000	435		PACE	i s. Sistemasis	d, 1
10/13/1994		50.76	27,33		23.43	85,000	10,000	20,000	3,200	13,000	796	0.8	PACE	-	
10/13/1994		50:76	 28.25		 22.51	51,000 51,000	7,400 7,100	13,000 13,000	2,100	9,100	773		PACE		d, l
1/25/1995		50.76	21.85		28.91	26,000	3,600	9,600	2,100 1,200	8,900 6,400	506	2.9	PACE ATI		e,I
1/25/1995						28,000	4,200	12,000	1,500	7,800			ATI		41
4/19/1995		50.76	19.44		31.32	89,000	12,000	24,000	3,500	18.000		5.1	ATI		
4/19/1995						100,000	12,000	26,000	3,800	21,000			АП		ď
7/5/1995		50.76	20.52	garafaradariy Taqay	30.24	130,000	13,000	29,000	3,300	25,000		4.3	ATI		
10/5/1995		50.76	24.23		26,53	110,000	10,000	23,000	3,600	17,000	34,000	2.1	ATI		
1/12/1996	— ·	50.76	25.34		25.42	46,000	3,500	8,300	1,100	8,000	3,000	3.3	ATI	***********	
1/12/1996						40,000	3,500	9,000	1,200	8,700	4,300		ATI	0. <u>011</u> 160	
4/22/1996	- -	50.76	19.13	-	31.63	40,000	5,100	9,600	980	11,800	29,000	3.2	SPL		rtert er terse differense betreffe de DS flor
4/22/1996						61,000	8,300	16,000	1,600	15,200	36,000		SPL		La companya da

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level		Concentrations in (µg/L)								
Well and		Elevation	Water	Thickness	Elevation	GRO/	<u> </u>	<u> </u>	Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pН	Comments
MW-4 Cont.															
7/2/1996						78,000	9,800	21,000	1,900	15,300	42,000		SPL		d
7/2/1996	Pertoning 100	50.76	20.67	Promoved reference (b.)	30.09	74,000	9,800	21,000	2,100	16,600	41,000	3,4	SPL	-	
11/8/1996		50,76	20.95	er camera arisensi Praticipa	29.81	100,000	7,900	16,000	2,500	13,700	37,000	3.7	SPL		
11/8/1996			-			110,000	9,100	20,000	3,000	15,400	39,000		SPL	-	d
1/3/1997		50.76	20,54		30.22	99,000	17,000	30,000	4,300	22,700	79,000	4.2	SPL		
1/3/1997			***		-	66,000	12,000	19,000	2,900	15,000	69,000		SPL	-	d
4/28/1997		50,76	21,28		29.48	130,000	12,000	28,000	3,800	21,000	37,000	3,9	SPL		
4/28/1997				-		110,000	11,000	26,000	3,200	18,200	34,000	-	SPL		d .:
7/1/1997		50,76	23,61		27.15	110,000	16,000	25,000	4,900	24,400	37,000	3.6	SPL		The state of the s
10/2/1997		50.76	25.39	-	25.37	_		-	_	l				-	
10/3/1997				ar versi ledi 🛥 zu diarre.		71,000	8,600	8,700	2,900	13,500	84,000		SPL		
10/3/1997		50.76	-			66,000	8,200	8,600	2,700	13,400	80,000	4.4	SPL	-	
1/9/1998		50.76	21.25		29.51	100,000	9,700	3,200	1,500	4,700	92,000	3.8	SPL		
5/6/1998	<u> </u>				Landan (ver) hand a fill a	440,000	8,000	39,000	14,000	70,000	<5000		SPL		d
5/6/1998		50.76	15.96		34.8	430,000	6,900	31,000	11,000	56,000	<5000	3.9	SPL		
7/21/1998	— 		. — Lienkonnastini kirikar			210,000	11,000	27,000	5,600	26,800	29,000		SPL		d
7/21/1998		50.76	16.1		34.66	250,000	11,000	26,000	5,500	26,900	29,000	3.7	SPL		
12/30/1998	i i i i i i i i i i i i i i i i i i i	50.76	20,91		29.85	370,000	11,000	22,000	8,500	40,000	90000/92000		SPL		j
2/2/1999		50.76	20.13		30.63	190,000	4,100	19,000	4,800	32,000	28,000		SPL	to the partie	
5/10/1999	i .i Aur ienskaanse	50.76	16.63		34.13	2,700	23	7.1	8.1	25	120	useununes.	SPL		
9/23/1999		50.76	22,48		28.28	180,000	11,000	29,000	7,000	38,000	12,000		SPL		
12/23/1999	— 	50.76	22.94		27.82	66,000	6,300	5,200	2,200	7,800	35,000		PACE		k
3/27/2000		50.76	16.84		33.92	120,000	8,700	12,000	3,800	16,000	27,000		PACE	-	
5/22/2000	 /::::::::::::::::::::::::::::::::::	50.76	17.85		32.91	110,000	7,600	16,000	4,400	20,000	25,000	 	PACE		
8/31/2000		50.76	21:71		29.05	110,000	8,800	7,600	3,400	14,000	18,000		PACE		
12/11/2000	_ [220.86303	50.76	22.05		28,71	70,000	4,580	3,480	2,550	9,220	24,400	<u> </u>	PACE		
3/20/2001	vr'mol+400,004	50.76	17.68		33.08	100,000	7,100	4,530	2,540	9,370	63,100		PACE		
6/19/2001		50.76	19,4		31.36	180,000	7,430	14,600	5,400	25,300	36,100	 :45.8555385	PACE		
9/20/2001		50,76	22.01		28.75	130,000		0.020	2010	14.600	72 700		DACE		f, m
12/27/2001		50.76	17.96	s a de la capabación.	32.8	120,000	6,880	9,030	2,840	14,600	32,300	 	PACE		and had principle and the care of the
2/28/2002	-	50,76	17.06	hari Tarib	33.7	80,000	4,920	5,450	2,220	12,300	35,900		PACE		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level		Concentrations in (µg/L)								
Well and		Elevation	Water	Thickness	Elevation	GRO/	<u> </u>		Ethyl-	Total		(mg/L)		İ	
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pН	Comments
MW-4 Cont.															
6/28/2002		50.76	17.76		33	48,000	2,780	2,770	1,530	6,790	25,100		PACE		
9/12/2002	erona electrostrotace e ro	50.76	19.45		31.31	46,000	4,500	6,800	2,600	10,000	9,100		SEQ	6.8	lääällesälliiliselleill, missaannist opiavastativa va
12/12/2002		50.76	21,29		29,47	36,000	5,200	3,400	2,000	6,500	12,000		SEQ	6.7	
3/10/2003		50.76	17.16	mytes Actions (Artist statute).	33.6	70,000	7,000	4,800	3,300	13,000	29,000	 .	SEQ	6.7	P. 1999 M. Pri Principal Victoria de la Carta
5/12/2003		50.76	14.51		36.25	75,000	7,600	3,700	3,400	13,000	26,000		SEQ	6.8	
8/27/2003		50.76	19.32	-	31.44	77,000	7,500	1,300	2,100	4,000	32,000		SEQ	6.8	n, s
11/10/2003	P	50.76	20.36		30.40	110,000	7,100	3,100	2,100	5,800	25,000		SEQM	6.6	
02/03/2004	P	50.76	16.51	_	34.25	160,000	8,400	9,700	5,000	23,000	26,000		SEQM	6,7	
05/04/2004	P	50.76	16.47		34,29	110,000	8,100	7,500	4,300	17,000	<250		SEQM	6.7	
08/31/2004	P	50.76	19.16		31.60	91,000	6,600	8,400	3,700	14,000	14,000		SEQM	6.7	
11/23/2004	P	50.76	18.02		32,74	7,400,000	20,000	150,000	320,000	1,400,000	23,000		SEQM	6.6	5
01/18/2005	P	50.76	: 14.21	***	36.55	170,000	5,400	14,000	6,900	33,000	8,800		SEQM	6.5	5
06/29/2005	P	50.76	13.86		36.90	640,000	3,500	25,000	24,000	110,000	1,700		SEQM	7.2	
09/01/2005	P	50.76	16.89	-	33.87	100,000	3,800	11,000	4,900	33,000	1,100	_	SEQM	6.7	
11/03/2005	P	50,76	19.33		31.43	490,000	4,700	11,000	10,000	49,000	1,500	0.5	SEQM	6.6	
02/14/2006	P	50.76	13.55	-	37.21	970,000	60,000	7,000	36,000	140,000	38,000	- :	SEQM	6.8	5
5/30/2006	P	50.76	13.52		37,24	140,000	3,000	6,600	6,200	29,000	560		SEQM	6.6	
8/29/2006		50.76	17.52	<u> </u>	33.24	52,000	4,700	2,500	3,500	12,000	1,800		TAMC	6.7	
MW-6															
7/24/1992		50.32	30.63		19.69	ND	1,6	ND	ND	ND					
7/27/1992		50.32	30.63	_	19.69				-			-	-		
9/15/1992		50.32	31.52	enderen den belede Belderen Transcollis	18.8	<50	<0.5	<0.5	<0.5	<0.5			ANA		
12/15/1992	. —	50.32	32.42		17.9	58	1.3	<0.5	<0.5	<0.5	***		ANA		neer it in needs one enough describes metallicit
3/15/1993		50.32	26.29		24.03	<50	<0.5	0.6	<0.5	0.7			PACE		ulthesidisis un sun en surtir anneren ratter Historia (1986) de la compania del compania del compania de la compania del compania d
6/7/1993		50.32	26.33		23.99	<50	<0.5	<0.5	<0.5	1.5	_	_	PACE		1
9/23/1993		50,32	29,64		20.68										
9/24/1993	- -	50.32	-			<50	<0.5	<0.5	<0.5	<0.5	28.5	-	PACE		1
12/27/1993		50.32	29,75		20.57	<50	<0,5	<0.5	<0.5	<0.5	55;4		PACE		e)
4/5/1994		50.32	27.26	-	23.06	<50	<0.5	<0.5	<0.5	<0.5	295	1.7	PACE	***	e,l
7/22/1994		50.32	27,34		22.98	350	<0.5	<0.5	<0.5	<0,5	419	4.5	PACE		e, l

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	rtions in (µ	g/L)					_
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	рH	Comments
MW-6 Cont.															.,,
10/13/1994	ege <u>er</u> ridi.	50.32						. N N						l	g
1/25/1995		50.32	22.16		28.16	240	6	<0.5	<0.5	<1		-	ATI		 Some of a constraint and a
4/19/1995		50.32						3-3 - 8-3	-						S
7/5/1995		50.32	20.8	— .	29.52	180	<0.50	<0.50	<0.50	<1.0	_	4.9	ATI	_	***************************************
10/5/1995		50,32	24.2		26.12	860	<5.0	<5.0	<5.0	<10	3,600	2.8	ATI		
1/12/1996	— —	50.32	25.3		25.02	860	<5.0	<5.0	<5.0	<10	2,800	4.2	ATI		
4/22/1996		50.32	19.13		31,19	<50	<0.5	<1	<1	a Si	470	4.3	SPL		
7/2/1996	- ·	50.32	20.66	–	29.66	100	<0,5	<1	<1	<1	1,100	4,2	SPL	-	
11/8/1996		50,32	20,98	contractors	29.34	1,100	< 5	<10	<10	<10.	1,500	4,3	SPL		
1/3/1997	—	50.32	20.53		29.79	<50	<0.5	<1.0	<1.0	<1.0	450	4.5	SPL		
4/28/1997		50.32	21,25		29.07	1,400	<0.5	<1.0	<1.0	<1.0	3,500	4.4	SPL		
7/1/1997	-	50.32	23.4		26.92	6,100	<0.5	<0.1>	<1.0	<1.0	9,100	3.9	SPL		
10/2/1997		50,32	25.16		25.16		<u> </u>								
10/3/1997		50.32		-	-	330	<0.5	<1.0	<1.0	<1.0	2,600	4.4	SPL		
1/9/1998		50.32	21.13		29.19	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	SPL		
5/6/1998	_	50.32	16.11		34.21	410	<0.5	<1.0	<1.0	<1.0	500	3.6	SPL		
7/21/1998		50,32	16.33		33,99	4,300	<5	<10	<10	<10	3,800	4,0	SPL		
12/30/1998	_	50.32	20.89		29.43	_	<u></u>	<u> </u>	-/:					-	1000 C 10
2/2/1999		50.32	20.2		30.12	-					2010			<u> </u>	
5/10/1999		50.32	16.75	-	33.57	-		-					_		
9/23/1999		50.32	22,55		27.77	<50	<1.0	<1.0	<1,0	<1.0	1,600		SPL		
12/23/1999		50.32	23		27.32		-	-	_				-	_	
3/27/2000		50.32	16,89		33.43	1,700	4.4	0.54	<0,5	1	14,000		PACE		
5/22/2000		50.32	18.02		32.3	-		-		_		_			
8/31/2000		50.32	21.62		28.7	1,200	<0.5	<0.5	<0.5	<0.5	3,900		PACE		
12/11/2000		50.32	21.81	–	28.51		_	-	-	-	. —		_		userves a consensation for the contraction of the
3/20/2001		50.32	16.97		33,35	3,300	<0.5	<0.5	<0.5	<1.5	3,760	i vai con	PACE	-	
6/19/2001		50.32	19.3	-	31.02			_	-						unu totak kiralasa sala milja 1,4,11,4,11,0
9/20/2001		50.32	22		28.32	2,200	2.04	8.1	3.62	13.7	2,460		PACE	-	
12/27/2001	-	50.32	17.85		32.47	830	0.59	<0.5	<0.5	<1.0	1,040		PACE		a para di minima da talada da
2/28/2002		50.32	16.31		34.01	1,100	<0.5	<0.5	<0.5	<1.0	1,450	145	PACE	=	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level	Water Level Concentrations in (µg/L)									
Well and		Elevation	Water	Thickness	Elevation	GRO/	Ĭ		Ethyl-	Total		(mg/L)	**************************************		
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pН	Comments
MW-6 Cont.															
6/28/2002		50.32	17.57		32.75	<50 □	<0.5	<0.5	<0.5	<1.0	1,020		PACE		
9/12/2002		50.32	19.27	_	31.05	190	1.9	4.6	1	7.3	480		SEQ	7.1	
12/12/2002		50.32	20.94		29,38	270	<2.5	<2.5	<2.5	<2.5	500		SEQ	6.9	
3/10/2003		50.32	17.11	_	33.21	110	<0.50	<0.50	<0.50	<0.50	190	_	SEQ	7.0	
5/12/2003		50,32	15.18		35.14	<50	<0.50	<0.50	<0.50	<0.50	36		SEQ	7.0	
8/27/2003	——————————————————————————————————————	50,32	18.9		31.42	<50	<0.50	<0.50	<0.50	<0.50	8.9	-	SEQ	7.0	п.
11/10/2003	P	50,32	20:13		30.19	<50	<0.50	<0.50	<0.50	<0.50	4.5		SEQM	6.8	
02/03/2004	NP	50.32	15.83		34.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50		SEQM	6.9	
05/04/2004	P	50.32	15.62		34.70	<50	<0.50	<0.50	<0.50	<0.50	24		SEQM	6.9	
08/31/2004	P	50.32	18.56		31.76	<50	<0.50	<0.50	<0.50	<0.50	27		SEQM	7.0	
11/23/2004		50.32	16.95		33.37		777771 64443								
01/18/2005	P	50.32	13.61		36.71	<50	<0.50	<0.50	<0.50	<0.50	1.3	_	SEQM	6.8	And Andreas and an annual and an annual and a
06/29/2005		50.32	13.55	And the second	36.77		100000000000000000000000000000000000000								
09/01/2005	_	50.32	16.52		33.80	- '		: -	- 1			- .	- "	-	
11/03/2005		50.32	19,28		31.04										
02/14/2006		50.32	lui d i		- : : : - : : : : : : : : : : : : : : : : : : :										g
5/30/2006		50.32					-								.
8/29/2006		50.32	17.15	· -	33.17	_	<u> </u>			-					
MW-7															
1/25/1995		51.4	21.67		29.73	<50	<0.5	<0.5	√<0.5	<1		7.0	ATI		
4/19/1995		51.4	25.27	-	26.13	<50	<0.5	<0.5	<0.5	<1		5.0	ATI		
7/5/1995	1.5-2	51,4	24.63		26,77	<50	<0.50	<0.50	<0.50	<1.0	-	4.2	ATI		
10/5/1995		51.4	28.21	-	23.19	83	<0.50	<0.50	< 0.50	<1.0	.77	4.5	ATI	-	
1/12/1996		51.4	29.29		22.11	63	<0.50	<0.50	<0.50	<1.0	120	4.8	ATI		
4/22/1996		51.4	23.11	-	28.29	<50	<0.5	<1	<1	<1	13	4.8	SPL		
7/2/1996		51,4	23.56		27.84	<50	<0.5	<1	<1	<1	<10	4.8	SPL		
11/8/1996		51.4	20.06	240 000 40 to 20 000	31.34	<50	<0.5	<1.0	<1.0	<1.0	<10	5.1	SPL		
1/3/1997	.	51.4	23,42		27.98	<50	<0,5	<1.0	<1.0	<1.0	<10	4.7	SPL	-	
4/28/1997		51.4	24.12	***	27.28	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		
7/1/1997		51.4	26,4		25	<50	<0.5	<1.0	<1.0	<1.0	<10	4.2	SPL		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		TOC	Depth to	Product	Water Level			Concentra	itions in (μ	g/L)					
Well and		Elevation	Water	Thickness	Elevation	GRO/	T		Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pН	Comments
MW-7 Cont.															
10/2/1997		51.4	28.14		23.26	<50	<0.5	<1.0	<1,0	<1.0	<10	≥4.7	SPL		
1/9/1998	. 	51.4	24,02	enprintessi reneralisti	27.38	<50	<0.5	<1,0	<1.0	<1.0	<10	4.1	SPL		
5/6/1998		51.4	21		30.4	1,900	<0.5	<1.0	<1,0	<1.0	1,800	3.5	SPL		
7/21/1998		51.4	21.17	interior de la companie de la compa	30.23	50	<0,5	<1.0	<1.0	<1.0	<10	3.7	SPL	-	
12/30/1998		51,4	22,13		29,27				-						
2/2/1999		51.4	22.08		29.32		-	-	-	_		-			
5/10/1999		51.4	18.58		32.82					-			_		
9/23/1999	-	51.4	24.29	-	27.11	70	<1.0	<1.0	<1.0	<1.0	4,700	-	SPL		
12/23/1999		51.4	24.53		26.87		-							2002000000	
3/27/2000		51.4	18.58	-	32.82	910	<0.5	<0.5	<0.5	<0.5	2,600		PACE	_	
5/22/2000		51.4	19,49		31,91				_	Principal State Control of the Contr					
8/31/2000	-	51.4	22.53	-	28.87	440	<0.5	<0.5	<0.5	<0.5	900		PACE		and the second second second second
12/11/2000		51.4	22,75		28.65	10001220									
3/20/2001		51.4	18.79		32.61	1,100	<0.5	<0.5	<0.5	<1,5	1,210	-	PACE		
6/19/2001	# 1 <u>01</u> 177201	51:4	19,82		31.58									-	
9/20/2001		51.4	21.35	_	30.05	1,300	1.21	<0.5	<0.5	<1.5	1,550		PACE		rpomosakelomanaschendomingerig
12/27/2001		51.4	20.36		31.04	510	<0,5	<0.5	<0.5	<1,0	643		PACE		
2/28/2002	-	51.4	21.86		29.54	250	<0.5	<0.5	<0.5	<1.0	317	Lessesse	PACE		aisussissin spanjuvaannus ruousus
6/28/2002		51.4	22.64		28.76	<50 	<0.5	<0.5	<0.5	<1.0	102		PACE		
9/12/2002		51.4	23.51		27.89	<50	<0.5	<0.5	<0.5	1 	14	Amerikana	SEQ	7.5	
12/12/2002		51.4	23.75		27.65	<50	<0.5	<0.5	<0.5	<0,5	<2.5		SEQ SEO	7.5	
3/10/2003		51.4	21.25	essemenadosinis	30.15	61	<0.50	<0.50	<0.50	<0.50 <1.0	99 120		SEQ	7.6	
5/12/2003		51.4	21,44		29,96	<100	<1.0	<1.0 <0,50	<1.0 <0.50	<0.50	120 84		SEQ	7.6	
8/27/2003	 	51.4	23.3		28.1	120	<0.50			<1.0	92		SEQM	6.7	n O
11/10/2003	P	51.40	20.24		31.16	230	<1.0	<1.0	<1,0	Minister Office	91		SEQM	7.5	
02/03/2004	P	51.40	20.63	 Literustitazeatzakoa	30.77	<250	<2.5	<2.5	<2.5	<2.5	190		SEQM	7.6	
05/04/2004	P	51.40	21.89		29.51	<250	<2.5	<2.5	<2.5	<2.5	PARTICIPATION OF THE PARTY.		SEQM	7.3	
08/31/2004	P	51.40	23.16		28.24	<500	<5.0	<5,0	<5.0	<5.0	220		SEQM	7.1	
11/23/2004	P	51.40	21.65		29.75	590	<2.5	5.0	11	51 2.5	290 92		SEQM	7.1	
01/18/2005	P	51.40	16.28	- Jaalaanna seatank	35.12	<250	<2,5	<2.5 97	<2.5 92	390	92 250		SEQM	8.0	
06/29/2005	P	51,40	14,50		36.90	2,200	43	9/	92	390	23 0		BEQIVE	U.a	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level		Concentrations in (µg/L)								
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	рH	Comments
MW-7 Cont.	.,														
09/01/2005	P	51,40	20,41		30.99	<500	<5.0	<5.0	<5.0	<5,0	60		SEQM	7.5	
11/03/2005	P	51.40	21.00		30.40	130	<1,0	<1.0	<1.0	1,0	130	0.63	SEQM	7.2	W
02/14/2006	P	51,40	16.31		35.09	100	<0.50	<0.50	<0.50	0.87	62		SEQM	7.4	
5/30/2006	P	51.40	17.58	-	33.82	<50	<0.50	<0.50	<0.50	<0.50	9.1	_	SEQM	7.2	
8/29/2006		51.40	18.64		32.76	100	<2.5	<2.5	<2.5	<2.5	140		TAMC	6,9	
MW-8							***************************************								
1/25/1995		50.88	31.59	<u> </u>	19.29	54	<0.5	<0.5	<0.5	<1		7.1	ATI	_	
4/19/1995		50.88	19:18	3/3	31,7	<50	<0.5	<0.5	<0.5	d.		5,1	ATI		
7/5/1995		50.88	19.03		31.85	<50	<0.50	<0.50	<0.50	<1.0	-	4.5	ATI		
10/5/1995		50,88	24.4		26.48	<50	<0.50	<0.50	<0.50	<1,0	< 5. 0	4.1	ATI		
1/12/1996	-	50.88	25.51		25.37	<50	<0.50	<0.50	<0.50	<1.0	<5.0	4.6	ΑП		
4/22/1996		50,88	18		32.88	<50	<0,5	* 1	<1	ব	<10	4.8	SPL		
7/2/1996	. —	50.88	19.83	—	31.05	<50	<0.5	<1	<1	<1	<10	4.5	SPL		
11/8/1996		50.88	20.09		30.79	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	SPL		
1/3/1997		50.88	19.72		31.16	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL		
4/28/1997	7	50.88	20.44		30.44	<50	<0.5	<1,0	<1.0	<1.0	<10	4,1	SPL		
7/1/1997		50.88	22.72		28.16	<50	<0.5	<1.0	<1.0	<1.0	<10	3.8	SPL		
10/2/1997		50,88	24.51		26.37	<50	<0.5	i<1.0 iii	<1.0	<1.0	<10	4.2	SPL		
1/9/1998		50.88	21.17	-	29.71	<50	<0.5	<1.0	<1.0	<1.0	<10	3.5	SPL	-	11.001.003/003/003/003/003/003/003/003/003/003
5/6/1998	a ::::	50.88	18.34		32,54	<50	<0.5	<1.0	<1,0	<1.0	<10	3,6	SPL		
7/21/1998		50.88	18.55		32.33	90	<0,5	<1.0	<1.0	<1.0	<10	3.3	SPL		
12/30/1998		50.88	20.4		30.48								. (1 1. . (1	-	
2/2/1999	–	50.88	19.28		31.6		_	i i i i i i i i i i i i i i i i i i i		-				! -	San Jako andarah sangan sa
5/10/1999		50.88	15.62		35.26										
9/23/1999		50.88	21.74	-	29.14		_		-	-		-			
12/23/1999		50.88	22,83		28.05										
3/27/2000	-	50.88	16.25		34.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	PACE		Lateratoria de la proposición de la compansión de la co
5/22/2000		50,88	17.06		33.82				<u></u>						
8/31/2000	_	50,88	21.72		29.16	_				-	-	-			a jir utu saurupatata pyukulaya k
12/11/2000		50.88	22.03		28.85						 	-		-	

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level		Concentrations in (µg/L)								-
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(fect)	(feet msl)	TPHg	Benzene	Toluenc	Benzene	Xylenes	MTBE	DO	Lab	рН	Comments
MW-8 Cont.															
3/20/2001		50,88	16.23		34.65	<50	<0.5	<0,5	<0.5	<1.5	0.991		PACE		
6/19/2001		50.88	19.35	-	31,53	_							_	_	
9/20/2001		50.88	21.95		28.93										
12/27/2001		50.88	16.98	-	33.9	-	-							-	
2/28/2002		50.88	15.38		35.5	<50	<0.5	<0.5	<0.5	<1.0	<0.5		PACE		
6/28/2002	. .	50.88	16.97	_ :	33.91	-		_	-	- "	· · · · · · · · · · · · · · · · · · ·		-		
9/12/2002		50.88	19,47		31.41			<u> </u>							
12/12/2002	. –	50.88	20.84	_	30.04	-		_ : .	-	i . —: .:	· · · · · · ·				
3/10/2003		50.88	16.56		34.32	<50	<0.50	<0.50	<0.50	<0.50	3		SEQ	7.1	
5/12/2003		50.88	13.63		37.25	-	_	· 🛶		:		-	_	_	
8/27/2003		50.88	18.9		31,98									-	n
11/10/2003		50.88	19.68		31,20		- :	. 						_	Partition of the Company of the Comp
02/03/2004	P	50.88	14.76		36.12	<50	<0.50	<0.50	<0.50	<0.50	<0.50		SEQM	7.5	
05/04/2004		50.88	14.69	na irikami arasmini	36.19	≓ serentederskok		— meisermesisi	-	ingan wang pang		i i i	estana kantangantan		egenggenometrands punktika
08/31/2004		50.88	18.08	100 100 10 10 10 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 1	32.80	Piddi ne v filo Distributo									
11/23/2004	NP	50.88	15.77		35.11		— Intributuagisti	eskiljstegote	eninteren	insingsystem	enteradora proportica de la			enizatana Contrata	
01/18/2005	P	50.88	12.04		38:84	<50	<0,50	<0.50	<0,50	<0.50	<0.50		SEQM	7.0	
06/29/2005 09/01/2005	-	50.88 50.88	16.12		 34.76				 Marianajana						
11/03/2005		50.88	19.42		31,46		_								
02/14/2006	– P	50,88	12.43		38.45	- <50	<0.50	<0.50	<0.50	<0.50	<0.50		SEQM	7.0	
5/30/2006		50.88	12,40		38.48	 						. 200 (1930) 			
8/29/2006		50.88	17.16		33.72									1213	
MW-9															
		<u> </u>							:				_		
1/25/1995	— Japanesis American	51.05	22.32		28.73	<50	<0.5	<0.5	<0.5	<1		7.4	АΉ		ANGRADING HALLES HE ALCOHOLOGY HA
4/19/1995	es a m <u>ull</u> es cons es a social and social	51.05	19.86		31.19	<50	<0.5	<0.5	<0.5	<1		5.2	ΑΤΙ		
7/5/1995		51.05	20.78	er Promitication de la paramata	30.27	<50	<0.50	<0.50	<0.50	<1.0		4.4	ATI		Proprendra deserbitada do serso e e e
10/5/1995						52	<0.50	<0.50	<0.50	<1.0	160		ATI		d
10/5/1995		51.05	24.33		26.72	<50	<0.50	<0.50	<0.50	<1.0	 - personal particular	2.3	ATI		
1/12/1996		51.05	25.44		25.61	<50	<0.50	<0.50	<0.50	<1.0	<5.0	3.2	ATI		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level									:	
Well and		Elevation	Water	Thickness	Elevation	í		ė.	Ethyl-	1	- Constitution	(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pН	Comments
MW-9 Cont.		in the second se						***************************************			under productive from				
4/22/1996		51.05	18.01		33.04	<50	<0.5	<1	<1	<1	11	3,5	SPL		
7/2/1996		51,05	19.7	-	31.35	<50	<0.5	<1	<1	<1	<10	3.3	SPL	-	es was the following of the first of potential and that is
11/8/1996		51,05	19.96		31.09	<50	<0,5	<1.0	<1.0	<1.0	<10	3.7	SPL		
1/3/1997		51.05	19.52	<u> </u>	31.53	<250	<2.5	<5.0	<5.0	<5.0	<50	4.4	SPL		and the second s
4/28/1997	-	51.05	20.22		30.83	<50	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL		
7/1/1997		51.05	22.59	-	28.46	<50	<0.5	<1.0	<1.0	<1.0	<10	3.9	SPL		
10/2/1997		51.05	24.33		26.72										
10/3/1997	_	51.05			· · · · · · · · · · · · · · · · · · ·	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	SPL	-	
1/9/1998		51.05	21.11		29.94	<50	<0.5	<1.0	<1.0	<1.0	<10	3,9	SPL		
5/6/1998	-	51.05	18,26		32.79	<50	<0.5	<1.0	<1.0	<1.0	<10	4.0	SPL	_	
7/21/1998		51.05	18,46		32,59	70	<0.5	<1.0	<1,0	<1.0	<10	3.7	SPL		
12/30/1998	· <u> </u>	51.05			***************************************	_	<u> </u>		'					_	g
2/2/1999		51.05	7	lla di seri											g
5/10/1999	-0149341936936	51.05		Eletine telajoren eta			- umirjusanissi		. 	La complete representations			trade service constraints	_	g
9/23/1999		51.05													g
12/23/1999	algalomán létrakolt le	51.05	orcornoportropicom			 Ligitais in in consensus	 eprephagosolist	parametració	ominoment	— ::::::::::::::::::::::::::::::::::::	nici digwa da paga a	. aggottanossi		<u>-</u>	g.
3/27/2000		51.05	ario Tropica												B
5/22/2000		51.05		enarcisoidere autitudu				ortoriosinina		<u>≓-</u> Leganico registry			: siidali issal peestiista	galamagnani galamagnani	д
8/31/2000 12/11/2000		51.05 51.05													g
3/20/2001	_ 	51.05 51.05					. - 1978: William			-		 debbobies	egadolinikyan		: B
6/19/2001		51.05 51.05													ģ
9/20/2001		51.05	 222		28,85	6,300	2.87	<0.5	 <0.5	 <1.5	8.640		PACE	 	g (2005-840-840-840-840-840-840-840-840-840-840
12/27/2001		51.05	18.92		32.13					-	0,040		FACE		
2/28/2002	4.044.00	51.05	17.22		33.83	19,000	1,560	61.3	84	-111	20,200	. – 	PACE		
6/28/2002		51.05	18.2		32.85	-	_	_	-						
9/12/2002	erine come	51.05	19.92		31.13	5,100	570	180	<25	220	6,400		SEQ	6.8	
12/12/2002	- -	51.05	21.78		29.27					-					
3/10/2003		51.05	18.25		32.8	26,000	2,500	<100	<100	<100	33.000		SEQ	6.9	
5/12/2003		51.05	16.29		34.76		_					-	SEQ		
8/27/2003		51.05	19.69		31.36	11,000	830	<50	<50	<50	6,300		SEQ	7.1	
	luta effil	Later Formal Herb	Indois Yald	Belletine de 19. (S.C.)			Hairith it					ted ask			

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	ntions in (µ	o/L.)					
Well and		Elevation	Water	Thickness	Elevation	GRO/	1		Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(fect msl)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Вепzепе	Xylenes	MTBE	DO	Lab	pН	Comments
MW-9 Cont.													İ		
11/10/2003		51.05	19,97		31.08										
02/03/2004	P	51.05	17.23	Filipedintinik natikustons —	33.82	6,200	180	<50	<50	<50	2,100		SEQM	7.2	C. (16.1.510)
05/04/2004		51.05	17,17		33.88										
08/31/2004	P	51.05	19.71		31.34	<2,500	210	<25	<25	<25	1,500	-	SEQM	7.0	Ania di Sitti Bili Villen este en 1944 gariada (1954)
11/23/2004		51.05	18.58		32,47										
01/18/2005	P	51.05	14.98		36.07	490	32	<2.5	<2.5	8.9	130		SEQM	6,9	sat " () () () () sat i monimore mensa albandan kebalan bi () () () () ()
06/29/2005		51.05	14,74		36,31									<u> </u>	
09/01/2005	P	51.05	17.42	<u> </u>	33.63	3,500	1,300	<25	<25	28	240	-	SEQM	6.9	
11/03/2005		51.05	19,90		31.15										
02/14/2006	P	51.05	12,95	_	38.10	2,700	<25	<25	<25	<25	2,200	-	SEQM	7.0	W
5/30/2006		51.05	13.76		37.29		:				-				
8/29/2006	<u> </u>	51.05	17.86		33.19	1,200	580	<25	<25	<25	<25		TAMC	6.9	
MW-10		Working and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st		***************************************											
1/9/1998	, 		20.97	ili dan 🕳 🗀		<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	SPL	-	h
5/6/1998			18.07	-	- : : :	800	<0.5	<1.0	<1.0	<1.0	980	3,9	SPL		h
7/21/1998			18.28	-		- 80	<0.5	<1.0	<1.0	<1.0	<10	4,0	SPL	-	h
12/30/1998	-		22.22	_		-			1 1 - 1			-			h .
2/2/1999			21.83			940	<10	<10	<10	<10	690		SPL		1
5/10/1999			17.99	<u>-</u>	–	: · '=									h
9/23/1999			22,61			<50	<1,0	<1.0	<1.0	1,4	1,000		SPL		ł
12/23/1999			23.75				_	·	-			-			h
3/27/2000			18.83			1,900	<0,5	<0.5	<0.5	<0.5	28,000		PACE		h
5/22/2000			19,47			 SUSSECTION CONTRACTOR			-		torogram was switched on where				h
8/31/2000			22.64			1,700	<0.5	<0.5	<0.5	<0.5	13,000		PACE		
12/11/2000	. F32283382	-	22.84			 		 	-	entrologie	-			 -:::::::::::::::::::::::::::::::::	h Juliani Dalamaya ta ta antara t
3/20/2001			19.57			16,000	<0.5	<0,5	<0.5	<1.5	11,900		PACE	Stration in	
6/19/2001	 Calladariada		20.63	entitizaren errena.			_ 	—	-	i maidigal <u>e</u> cim			_	— ,.:::::::::	h Alemania lingua pandangan ang ang
9/20/2001			23,07			5,800	<0.5	<0.5	<0.5	<1.5	8,160		PACE		
12/27/2001	 03(A)648118		20.92		- .	6,600	17.3	14.5	<12.5	<25	7,750	— .	PACE		h - Aladofferfalapointen riscia estir
2/28/2002			18.52	lytika t erak		3,600	10.8	<0.5	<0.5	<1.0	5,380		PACE		.

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

'		тос	Depth to	Product	Water Level										
Well and		Elevation	Water	Thickness	Elevation	GRO/			Ethyl-	Total		(mg/L)			
Sample Date	P/NP	(feet msl)	(feet bgs)	(feet)	(feet msl)	ТРНд	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pН	Comments
MW-10 Cont.														-	
6/28/2002			18,41			<50	<0.5	<0.5	<0.5	<1.0	2,570		PACE	-	h
9/12/2002			20.57			660	<5.0	<5.0	<5.0	<5.0	3,300		SEQ	7.2	h
12/12/2002			22.8			1,400	<5.0	<5.0	<5.0	<5.0	3,300		SEQ	6.9	.
3/10/2003			19.26			1,700	<5.0	<5.0	5.3	15	2,800	-:	SEQ	6.9	h
5/12/2003			17,9			1,500	<12	<12	<12	<12	2,200		SEQ	6.9	1
8/27/2003			20.82			4,100	<25	<25	<25	<25	2,800	_	SEQ	7.0	n, h
11/10/2003	P		21.92			<5,000	<50	<50	<50	<50	3,300		SEQM	6.8	
02/03/2004	P	-	18.52			5,100	<50	<50	<50	<50	2,300	-	SEQM	7.0	. : · q ·
05/04/2004	P		17,63			<2,500	<25	<25	~25	₹25	1,600		SEQM	6.8	
08/31/2004	P		20.67	_	-	<5,000	<50	<50	<50	<50	1,900	-	SEQM	7.0	
11/23/2004	P		19.79	7		2,600	<25	<25	<25	<25	2,300		SEQM	6.8	
01/18/2005	P		16.13			560	<5.0	<5.0	<5.0	<5.0	530	_	SEQM	6.9	
06/29/2005	P		15.56		loven <u>ro</u> deliki	110	1.9	4.6	4.2	17	71	1.44	SEQM	6.8	
09/01/2005	P		18.10			<250	<2.5	<2.5	<2.5	<2.5	280		SEQM	6.9	
11/03/2005	P		20.90	-	-	800	. ≤5.0	<5.0	<5.0	7.0	770	0.71	SEQM	6.8	W
02/14/2006	P		15.58	— :	-	600	<0.50	<0.50	<0.50	<0.50	400		SEQM	7.1	
5/30/2006	P		14.70			95	<0,50	<0.50	<0.50	<0.50	<0.50		SEQM	6.7	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
8/29/2006		_	18.69	-		250	<5.0	<5.0	<5.0	<5.0	490	:	TAMC	6.7	
QC-2															
9/15/1992					-	<50	<0.5	<0.5	<0.5	<0.5			ANA	. -	
12/15/1992		t (figure, misser teams) fri 				<50	<0.5	<0.5	<0.5	<0.5			ANA	 	esintraturi ili rimani artikala latika rima. Artistir
3/15/1993					-	<50	<0.5	<0.5	<0.5	<0.5			PACE		1
6/7/1993	—		- 15 cm 5 mg m man a man maga sa a maga sa maga	i intrataria di di mandali di di di di		<50	<0.5	<0.5	<0.5	<0.5		-	PACE	-	i, l
9/24/1993			Phrimerospeksen			<50	<0.5	<0.5	<0.5	<0.5	<5.0		PACE		j. [
12/27/1993	— —		t firmikaya hulin dilibilih —	- Landachine in the Com-		<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	PACE	-	• i, l
4/5/1994						<50	<0.5	<0,5	<0.5	<0.5	<5.0		PACE		
7/22/1994		Haller of the artificial 	gwce.essifeifeifeifei		**************************************	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	PACE		i, 1
10/13/1994						<50	<0.5	<0.5	<0.5	<0.5	<5.0		PACE		i ,1
1/25/1995				-		<50	<0.5	2	0.6	1			ΑП		i
4/19/1995						<50	<0.5	<0.5	<0.5	<0.5			ATI		

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #11117, 7210 Bancroft Ave., Oakland, CA

		тос	Depth to	Product	Water Level			Concentra	tions in (µ	g/L)				-	
Well and Sample Date	P/NP	Elevation (feet msl)	Water (feet her)	Thickness	Elevation	GRO/	B	T1.	Ethyl-	Total	MATTER	(mg/L)			
- Sample Date	FINE	(leet hist)	(feet bgs)	(feet)	(feet msl)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	DO	Lab	pH	Comments
QC-2 Cont.															
7/5/1995						<50	<0.50	<0.50	<0.50	<1.0			ATI		İ
10/5/1995	-	-				<50	<0.50	<0.50	<0.50	<1,0	<5.0	_	ATI	. Adecursia	iskusas ni maaninga seperakanan kulukus
1/12/1996		-			estembly etalono Etagosta distibili	<50	<0.50	<0.50	<0.50	<1.0	< 5.0		ATI	######################################	
4/22/1996			 .	<u> </u>	- :	<50	<0.5	<1	<i< th=""><th><1</th><th><10</th><th>-</th><th>SPL</th><th></th><th>. i</th></i<>	<1	<10	-	SPL		. i
7/2/1996						<50	<0,5	<1	<1	<1	<10		SPL	<u> </u>	

ABBREVIATIONS AND SYMBOLS:

- < = Not detected at or laboratory reporting limit
- --- = Not analyzed/applicable/measurable
- μg/L = Micrograms per liter
- ANA = Anamatrix, Inc.
- ATI = Analytical Technologies, Inc.
- DO = Dissolved oxygen
- DTW = Depth to water in ft bgs
- ft bgs = Feet below ground surface
- ft MSL = Feet above mean sea level
- GRO = Gasoline range organics
- GWE = Groundwater elevation in ft MSL
- mg/L = Milligrams per liter
- MTBE = Methyl tert butyl ether
- NP = Well not purged prior to sampling
- P = Well purged prior to sampling
- PACE = Pace, Inc.
- SEQ/SEQM = Sequoia/Sequoia Morgan Hill Analytical
- SPL = Southern Petroleum Laboratories
- TOC = Top of easing in ft MSL
- TPH-g = Total petroleum hydrocarbons as gasoline

FOOTNOTES:

- c = Concentrations reported as diesel from MW-1, MW-2 and MW-4 are primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.
- d = Blind duplicate.
- e = A copy of the documentation for this data is included in Appendix C of Alisto report 10-018-05-004.
- f = Well not sampled due to presence of free product (FP).
- g = Well inaccessible.
- h = TOC not surveyed.
- i = Travel blank.
- i = EPA method by 8020\8260.
- k = Samples ran outside of EPA recommended hold time.
- 1 = A copy of the documentation for this data can be found in Blaine Tech Services report 010619-C-2. The MTBE data for the March 15, 1993 and June 7, 1993 events have been destroyed.
- m = Thickness of SPH is only an estimate. The resulting GWE will not be used in contouring.
- n = Samples analyzed by EPA Method 8260B for TPH-g, benzene, toluene, ethylbenzene, total xylenes, and fuel oxygenates.
- o = Discrete peak (a) C6-C7.
- q = Discrete peak @ C5-C6.
- r = Well was dry.
- s =Sheen in well.
- t = DTW and resulting GWE were anomalous and not used in groundwater contouring.
- u = Anomalously low concentrations reported from Cambria. Do not appear to support historic trends.
- v = Unable to locate well.
- w = The hydrocarbon result for GRO was partly due to individual peaks in the quantitation range.
- x = Initial analysis for MTBE within holding time but required dilution.

NOTES:

Casing elevations surveyed to the nearest 0.01 ft MSL.

GWE adjusted assuming a specific gravity of 0.75 for FP.

During the third quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel

range resulting in a higher concentration being reported.

Beginning in second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Values for pH and DO are field measurements.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentrati	ons in (μg/L)													
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments									
EX-1																		
05/04/2004	<5,000	<1,000	2,500	<25	<25	38	<25	<25										
08/31/2004	<10,000	<2,000	2,100	<50	<50	<50	<50	<50	entri jai presidentenditi taa jiengi simmahulai antahas aintahakuji tasuatar mar, sen persejess.									
11/23/2004	<5,000	<1,000	3,000	<25	<25	74	<25	<25										
01/18/2005	<5,000	<1,000	2,200	<25	<25	54	<25	<25	a .									
06/29/2005	<5,000	<1,000	1,400	<25	<25	30	<25	<25										
09/01/2005	<5,000	<1,000	2,000	<25	<25	46	<25	<25	a makan mana mangan kanan kanan kanan manah manah kanan kanan kanan kanan kanan kanan kanan kanan kanan kanan Kanan kanan ka									
11/03/2005	<5,000	<1,000	3,000	<25	<25	87	<25	<25										
02/14/2006	<15,000	<1,000	1,100	<25	<25	<25	<25	<25	a									
5/30/2006	<15,000	<1,000	1,400	<25	<25	37	<25	<25	zakan kanan ka									
8/29/2006	<15,000	<1,000	2,500	<25	<25	56	<25	<25										
EX-2																		
05/04/2004	<100	<20	46	<0.50	<0.50	<0.50	<0.50	<0.50	nang senggapan basik sangkara kanang pada kangkara kangkara kangkara kangkara kangkara kangkara kangkara kangk Bangkara kangkara ka									
08/31/2004	<500	<100	130	<2.5	<2.5	3.4	<2.5	<2.5	t en monadamina de la companya de la companya de la companya de la companya de la companya de la companya de l La companya de la 11/23/2004	<100	<20	5.8	<0.50	<0,50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	a.									
06/29/2005	<100	<20	24	<0.50	<0.50	<0.50	<0.50	<0.50										
09/01/2005	<100	<20	55	<0.50	<0.50	0.56	<0.50	<0.50	The first and the first of the control of the first of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control									
11/03/2005	<100	<20	39	<0.50	<0.50	0.80	<0.50	<0.50										
02/14/2006	<300	<20	0.72	<0.50	<0.50	<0.50	<0.50	<0.50										
5/30/2006	<300	<20	7.8	<0.50	<0.50	<0.50	<0.50	<0.50										
8/29/2006	<300	<20	94	<0.50	<0.50	0.98	<0.50	<0.50										
MW-1			İ															
8/27/2003	<100	<20	4.2	<0.50	<0.50	<0.50	n i i i i i i i i i i i i i i i i i i i											
11/10/2003	<100	<20	0.51	<0.50	<0.50	<0.50			В редуструбрания при Винфине под до унаружения в удеточности постоя постоя постоя постоя постоя постоя постоя									
02/03/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50										
05/04/2004	<100	<20	<0.50	<0.50	<0,50	<0.50	<0.50	<0.50	a kan anan dari makan da dada da da ta kan bangan da kara da kan bangan kan da da da kan da kan da da da da da Tangan da da da da da da da da da da da da da									
08/31/2004	<100	<20	0.50	<0.50	<0.50	<0.50	<0.50	<0.50										
01/18/2005	<100	<20	<0.50	<0.50	<0,50	<0.50	<0.50	<0.50	a									
02/14/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ů,									
MW-2			Landa Land Street or or			4			Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan									
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Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentrati	ions in (μg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-2 Cont.									
8/27/2003	<25,000	<5,000	5,100	<120	<120	140			
11/10/2003	<50,000	<10,000	4,200	<250	<250	<250		a ha hasqia a sacra	varioren en en til store i di indicata de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del la compania del la compania de la compania de la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania del la compania
02/03/2004	<100,000	<20,000	1,900	<500	<500	<500	<500	<500	
05/04/2004	<50,000	<10,000	2,500	<250	<250	<250	<250	<250	
08/31/2004	<50,000	<10,000	3,400	<250	<250	<250	<250	<250	
11/23/2004	<50,000	<10,000	2,400	<250	<250	<250	<250	<250	i santamannatiintiisi kaksista oo kala jira ka ah oo ka ah oo ka ah oo ka ah oo ka ah oo ka ah oo ka ah oo ka a
01/18/2005	<20,000	<4,000	3,700	<100	<100	<100	<100	<100	A
06/29/2005	<10,000	<2,000	3,600	<50	<50	72	<50	<50	A service control monocomercial service (1945) and the first following and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co
09/01/2005	<20,000	<4,000	5,100	<100	<100	100	<100	<100	
11/03/2005	<20,000	<4,000	3,700	<100	<100	100	<100	<100	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
02/14/2006	<60,000	<4,000	3,400	<100	<100	<100	<100	<100	n en en en en en en en en en en en en en
5/30/2006	<60,000	<4,000	2,300	<100	<100	<100	<100	<100	The remove as managed plantaged and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of
8/29/2006	<60,000	<4,000	13,000	<100	<100	100	<100	<100	
MW-3									
8/27/2003	<100	<20	<0.50	<0.50	: <0.50	<0.50			
02/03/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/14/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	B
MW-4							·		
8/27/2003	<50,000	<10,000	32,000	<250	<250	250			
11/10/2003	<100,000	<20,000	25,000	<500	<500	<500	••	. - ·	Prime Ender Communication of the international professional Communication of the International Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication of Communication
02/03/2004	<100,000	<20,000	26,000	<500	<500	<500	<500	≺500	
05/04/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	
08/31/2004	<50,000	<10,000	14,000	<250	<250	<250	<250	<250	
11/23/2004	<500,000	<100,000	23,000	<2,500	<2,500	<2,500	<2,500	<2,500	Telepes come accommission of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t
01/18/2005	<50,000	<10,000	8,800	<250	<250	<250	<250	<250	
06/29/2005	<50,000	<10,000	1,700	<250	<250	<250	<250	<250	
09/01/2005	<100,000	<20,000	1,100	<500	<500	<500	<500	<500	
11/03/2005	<100,000	<20,000	1,500	<500	<500	<500	<500	<500	per protective in the executable as settlened as interest in large 17 (2012) less trebuilles frait for the 17 (

Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and			Concentrations in (µg/L)						
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-4 Cont.									
02/14/2006	<300,000	<20,000	38,000	<500	<500	1,000	<500	<500	n n
5/30/2006	<300,000	<20,000	560	<500	< 500₂	<500	<500	<500	
8/29/2006	<300,000	<20,000	1,800	<500	<500	<500	<500	<500	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
MW-6									
8/27/2003	<100	<20	8.9	<0.50	<0.50	<0.50			
11/10/2003	<100	<20	4.5	<0.50	<0,50	<0.50	-	_	
02/03/2004	<100	<20	<0.50	<0.50	<0,50	<0.50	<0.50	<0.50	
05/04/2004	<100	<20	24	<0.50	<0.50	<0.50	<0.50	<0.50	
08/31/2004	<100	<20	27	<0.50	<0.50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	n
MW-7									
8/27/2003	<100	<20	84	<0.50	<0.50	<0.50			
11/10/2003	<200	<40	92	<1.0	<1.0	<1.0			
02/03/2004	<500	<100	91	<2.5	<2.5	<2,5	<2.5	<2.5	
05/04/2004	<500	<100	190	<2.5	<2.5	<2.5	<2.5	<2.5	
08/31/2004	<1,000	<200	220	<5.0	<5.0	<5.0	<5.0	<5.0	
11/23/2004	<500	<100	290	<2.5	<2.5	<2.5	<2.5	<2.5	
01/18/2005	<500	<100	92	<2.5	<2.5	<2,5	<2.5	<2.5	n
06/29/2005	<500	<100	250	<2.5	<2.5	<2.5	<2.5	<2.5	
09/01/2005	<1,000	<200	60	<5.0	<5.0	<5.0	<5.0	<5.0	
11/03/2005	<200	<40	130	<1.0	<1.0	<1.0	<1.0	<1.0	
02/14/2006	<300	<20	62	<0.50	<0,50	<0,50	<0.50	<0;50	.
5/30/2006	<300	<20	9.1	<0.50	<0.50	<0.50	<0.50	<0.50	
8/29/2006	<1,500	<100	140	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-8									
02/03/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/18/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	n
02/14/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a a
MW-9									

Table 2. Summary of Fuel Additives Analytical Data Station #11117, 7210 Bancroft Ave., Oakland, CA

Well and				Concentration	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-9 Cont.									
8/27/2003	<10,000	<2,000	6,300	<50	<50	<50		_	
02/03/2004	<10,000	<2,000	2,100	<50	<50	<50	<50	< 50	a a
08/31/2004	<5,000	<1,000	1,500	<25	<25	<25	<25	<25	
01/18/2005	<500	150	130	<2.5	<2.5	<2.5	<2,5	<2.5	n
09/01/2005	<5,000	2,700	240	<25	<25	<25	<25	<25	
02/14/2006	<15,000	<1,000	2,200	<25	<25	<25	<25	<25	i
8/29/2006	<15,000	2,100	<25	<25	<25	<25	<25	<25	
MW-10									
8/27/2003	<5,000	<1,000	2,800	<25	<25	<25			
11/10/2003	<10,000	<2,000	3,300	<50	<50	<50	<u> </u>		
02/03/2004	<10,000	<2,000	2,300	<50	<50.	<50	<50	<50	n en en en en en en en en en en en en en
05/04/2004	<5,000	<1,000	1,600	<25	<25	<25	<25	<25	
08/31/2004	<10,000	<2,000	1,900	<50	<50	<50	<50	<50	
11/23/2004	<5,000	<1,000	2,300	<25	<25	<25	<25	<25	
01/18/2005	<1,000	<200	530	<5.0	<5.0	<5,0	<5.0	<5.0	a a
06/29/2005	<100	<20	71	<0.50	<0.50	<0.50	<0.50	<0.50	
09/01/2005	<500	<100	280	₹25	<2.5	<2.5	<2.5	<2.5	
11/03/2005	<1,000	<200	770	<5.0	<5.0	<5.0	<5.0	<5.0	
02/14/2006	<300	34	400	<0.50	≼0,50	1.2	<0.50	<0.50	a, b
5/30/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/29/2006	<3,000	<200	490	<5.0	<5.0	<5.0	<5.0	<5.0	

ABBREVIATIONS AND SYMBOLS:

-- = Not analyzed/applicable/measurable

< = Not detected above reported detection limit

1.2-DCA = 1,2-Dichloroethane

μg/L = Micrograms per Liter

DIPE = Di-isopropyl ether

EDB = 1 2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

FOOTNOTES:

a = The continuing calibration verificiation for ethanol was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

b = Initial analysis for MTBE within holding time but required dilution.

NOTES:

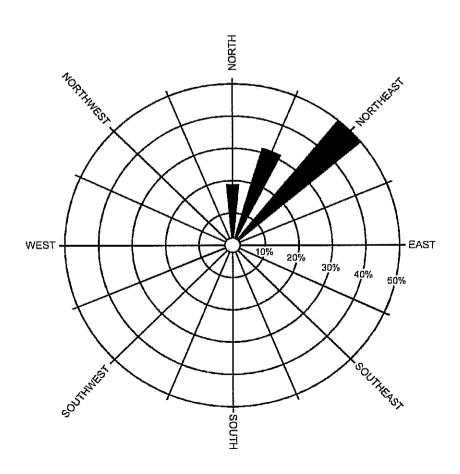
All volatile organic compounds analyzed using EPA Method 8260B.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 3. Historical Ground-Water Flow Direction and Gradient Station #11117, 7210 Bancroft Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
9/12/2002	Northeast	0.03
12/12/2002	Northeast	
3/10/2003	Northeast	0.03
5/12/2003	North-Northeast	0.055
8/27/2003	North-Northeast	0.036
11/10/2003	North-Northeast	0.012
2/3/2004	Northeast	0.013
5/4/2004	Northeast	0.015
8/31/2004	Northeast	0.010
11/23/2004	North-Northeast	0:04
1/18/2005	Northeast	0.02
6/29/2005	Variable	0.003, 0.006
9/1/2005	North	0.03
11/3/2005	North	800:0
2/14/2006	North-Northeast	0.02
5/30/2006	North	0.03
8/29/2006	Northeast	0.006

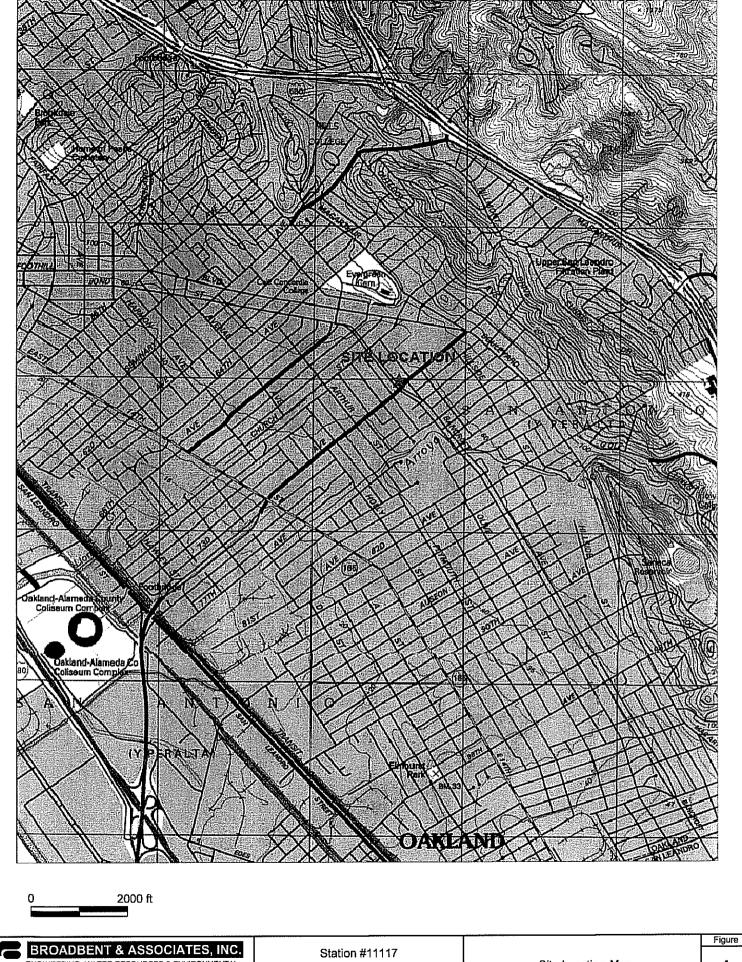
Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.



LIST OF FIGURES

Figure 1. Site Location Map

- Figure 2. Ground-Water Elevation Contours and Analytical Summary Map
 - Figure 3. Historic Depth to Water Measurements
 - Figure 4. Gasoline Range Organics Iso-Concentration Contours Map
 - Figure 5. Benzene Iso-Concentration Contours Map
 - Figure 6. MTBE Iso-Concentration Contours Map
 - Figure 7. Historic Hydrocarbon Concentrations in MW-2
 - Figure 8. Historic Hydrocarbon Concentrations in MW-4

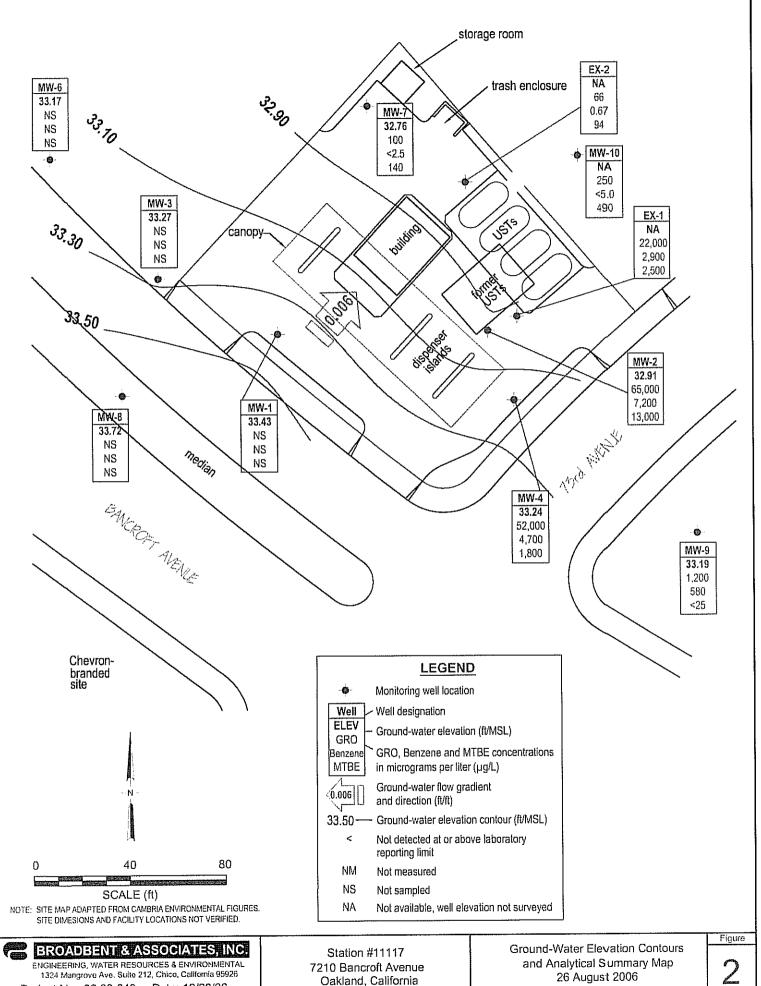


ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California 95926

Date: 12/28/06 Project No.: 06-08-649

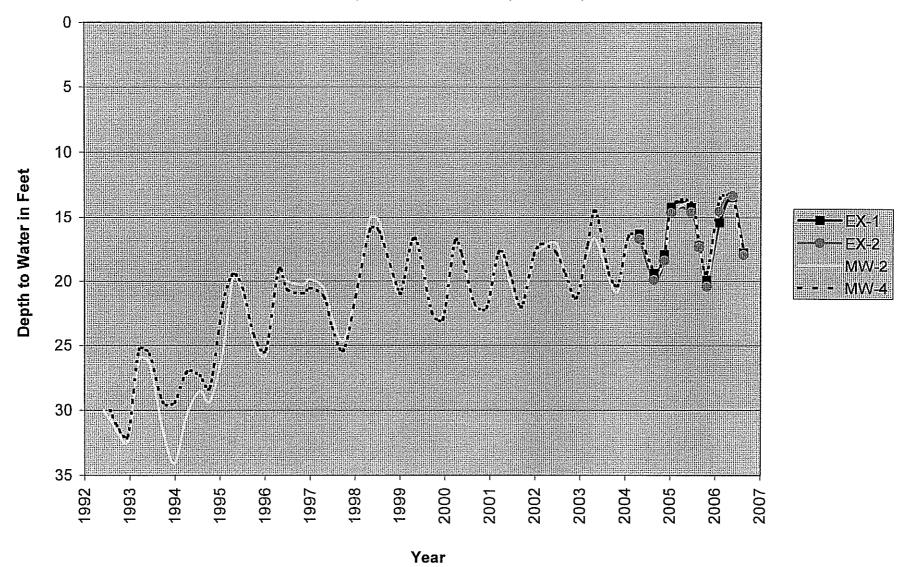
7210 Bancroft Avenue Oakland, California

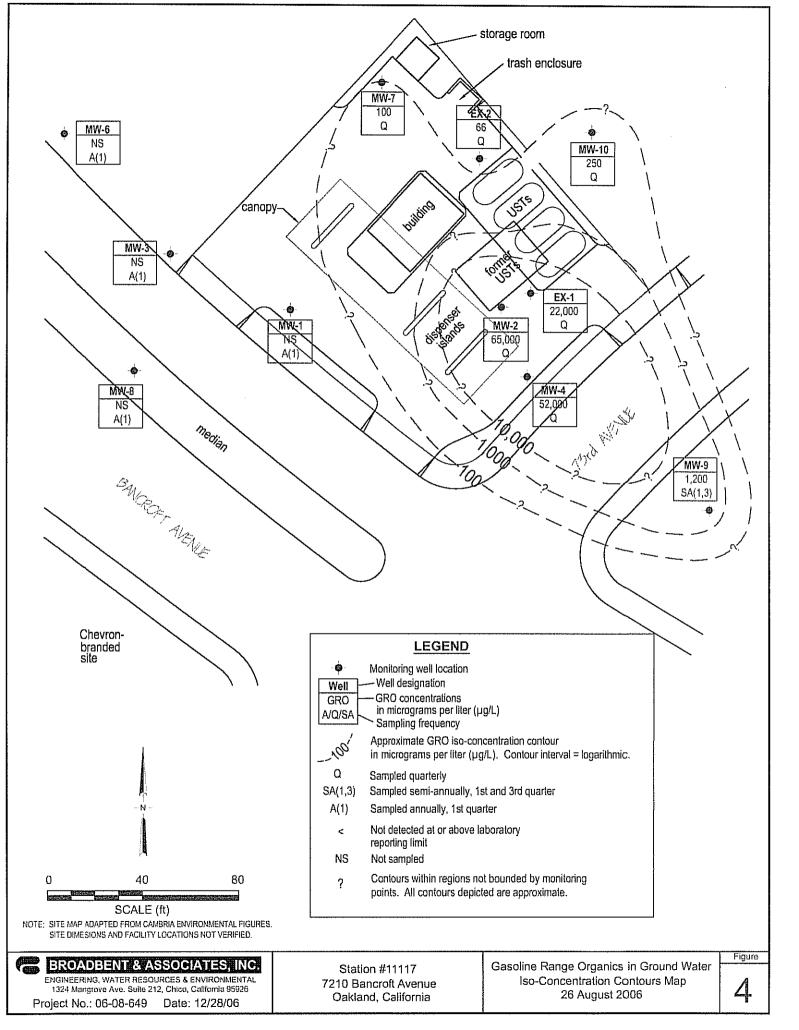
Site Location Map

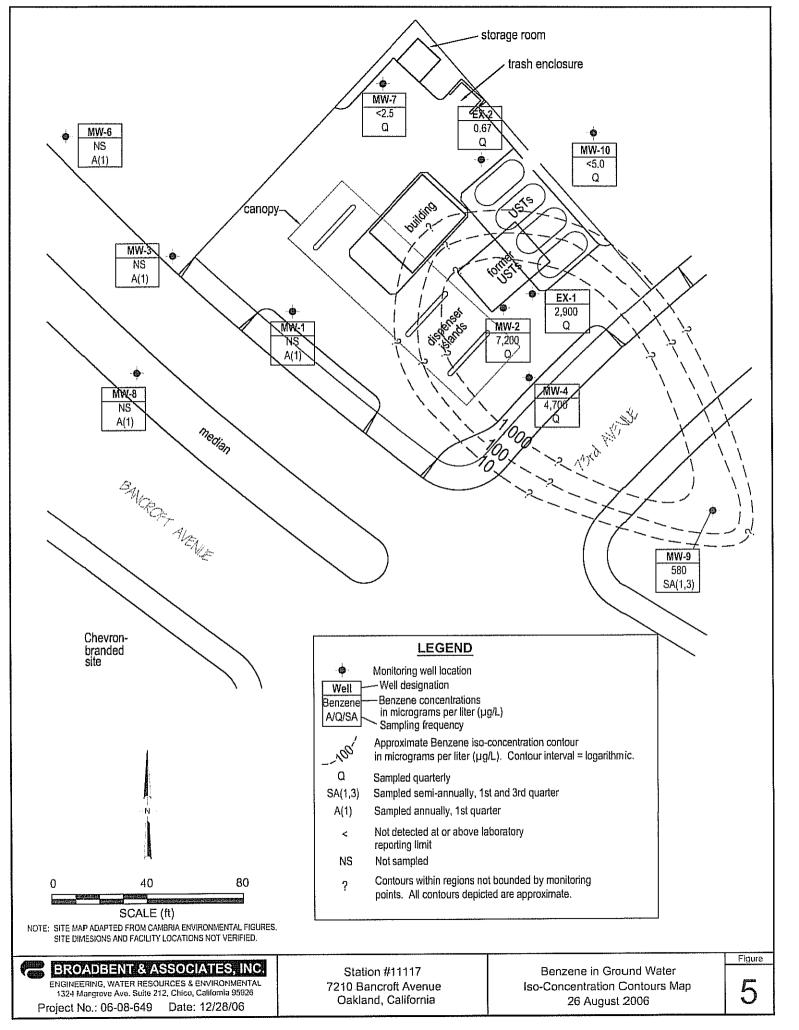


Project No.: 06-08-649 Date: 12/28/06 Oakland, California

Figure 3. Historical Depth to Water Measurements Station #11117, 7210 Bancroft Ave., Oakland, California







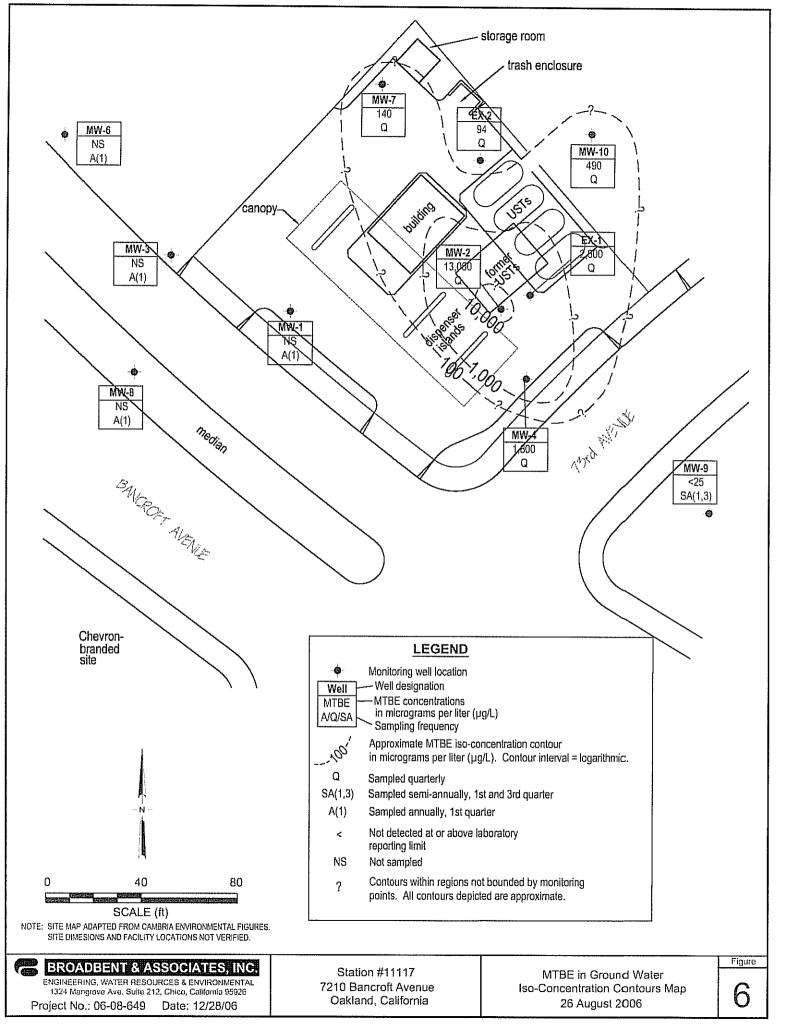


Figure 7. Historic Hydrocarbon Concentrations in MW-2 Station #11117, 7210 Bancroft Ave., Oakland, California

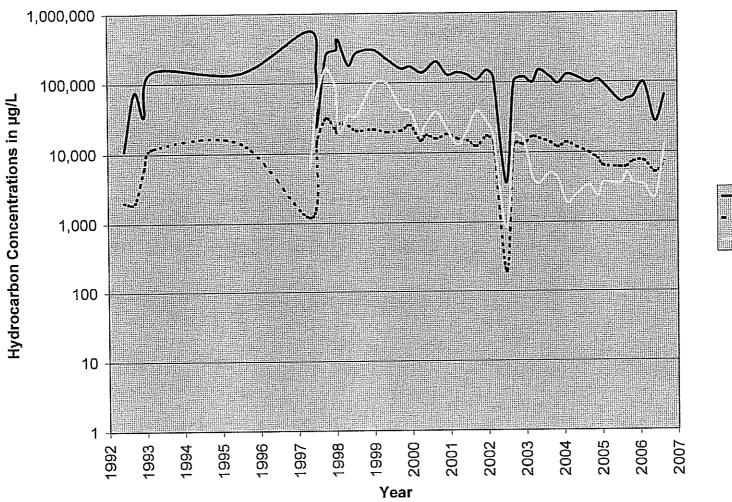
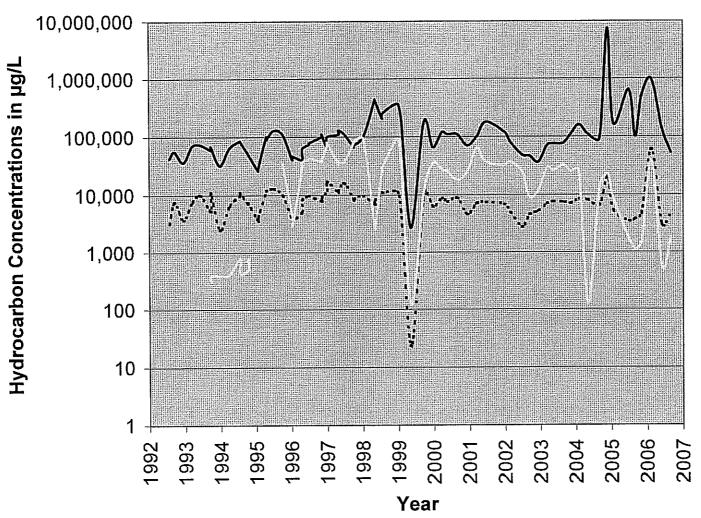




Figure 8. Historic Hydrocarbon Concentrations in MW-4 Station #11117, 7210 Bancroft Ave., Oakland, California



TPHG
- - - BENZENE
- - MTBE

APPENDIX A.

SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

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, •	5TTE/LOCATION 7210 Bancrof	t Avanua	Oakland, CA	BECUN		BORING DIAMETER	GLE/BEARING	BORING NO					
	DRILLING CONTRA	ACTOR	. Oakiand, CA	12/27/ COMPLET		8 Inches	90 Degrees	MW-1					
-	Bayland Dr	illing		12/27/	_	FIRST ENCOUNTERED 28 Feet	WATER DEPTH						
(OPERATOR Tom Schmid	L		[CCCED 8	Y	STATIC WATER DEPT	T/DATE						
	DRILL MAKE & MOI			T. Lane		29 Feet							
	CME 75			Califor	METHOD	ied split spoon		BOTTOM OF BORING					
	WELL MATERIAL		OT SIZE FILTER PA	CK WELL SEA	L	red spin spoon		40 Feet					
	2" SCH 40 PV).020" #2/16	Neat ce	ment ove	r bentonite		WEL NO. MW-1					
	FIELD HEADSPACE	H HH	WATER WELL LEVEL CONSTR	GRAPHIC LCG	MATERL	AL CLASSIFICA	TION & PHYSICAI						
		1		CONTRACTOR CONTRACTOR	ASPHA		- ITTOCAL	- DESCRIPTION					
		3			BASERO								
	f			Silty CLAY (CL) dark brown, low plasticity, 20-25%									
		, —		trace fine to coarse sand trace making and trace									
		4		trace fine to coarse sand, trace pebble gravel, dry. Sandy CLAY (CL) yellow-brown, low plasticity, 30									
	0.0	5			calidy C	LAY (CL) yell	ow-brown, low p	plasticity, 30-35%					
-	, .	6 —			inie sand	1, trace pebble	e gravel, trace ro	otlets, moist.					
		7		8	Gravelly	SAND (SW)	med. brown we	oll graded medium					
		a —		777	to coarse	grained, 15%	sub-rounded pe	ebble gravel, moist.					
		9 —		////	Silty CL	AY (CL) medi	um brown, low p	plasticity.					
	0.0	10		//// 1	5-20% s	ilt, trace medi	ium sand, damp.	,					
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		14			andy C	_AY (CL) med	lium brown, low	plasticity, 35-40%					
	0.0	15		//// I	me sanc	ed pebble gravel,	wet.						
		16		3//// —	·			į					
	ļ	17			race .	ty CLAY (CL) medium yellow-brown, low plasticity,							
		18			5-20% silt, trace angular pebble gravel, trace charcoal								
				//// f.	fragments, wet.								
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		24		////		OT 43//O=:							
	0.0	25			гачецу	LLAY (CL) m	edium brown, lo	w plasticity,					
	[]	26		//// 10	D-15% pe	ebble gravel, d	lamp.						
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(- TAATT	.▼ & T. I. I.	TATE TATE	7 T	WFI		CTION MW-1	A-2					
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D.A	ATE:				-	BP Oil Station No. 11117 JOB NO.							
-				· · · · · · · · · · · · · · · · · · ·	_	7210 Bancrof Oakland							
~~	Fred	erick G. M	oss, PE No. 3516.	<u>}</u>		Cariailu	,	9-029					
													

7210 Bancro	ft Avenu	ie, Oa	ikland, CA	BECUN 12/27	/91	BORING DIAMETER 8 Inches	GLE/BEARING	BORING NO				
DATEMAN CONTR	ACTOR			COMPLE		FIRST ENCOUNTERED W	90 Degrees	MW-1				
Bayland Dr	alling			12/27		28 Feet	TA LEK DEF LEI					
OPERATOR				TOCCED	BY	STATIC WATER DEPTH/	DATE					
Tom Schmid				T. Lan	e	29 Feet	DVIR					
CME 75	JL) E I,		*	SAMPLIN	G METHOD			HOVERN CO.				
WELL MATERIAL		SLOTS		Califo	mia modif	ied split spoon		BOTTOM OF BORING 40 Feet				
2" SCH 40 P	vc	0.02		v warr 25%	ملا			WELL NO.				
FIELD	1	ᄪ			ement ove	bentonite		MW-1				
HEADSPACE *	DEPTH		TER WELL VEL CONSTR.	GRAPHIC LOG	MATERLA	L CLASSIFICAT	ION & PHYSICAL					
	31	4			Cravally	CT AV (CT)		_				
	322				Graveny	CLAI (CL) II	edium brown, l	ow plasticity,				
] }	7		<i>!///</i>	20-30% s	ub-rounded co	oarse gravel, wet					
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					SOIL BORING LOG MW-1							
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ECH]	\mathbb{N}	OC	TES T	NC	WELL CONSTRUCTION MW-1							
	CHN@LOGIES, INC					BP Oil Station N		T-012				

DATE:

AFPROVED BY: Frederick G. Moss, PE No. 35162

BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA

јов no. -9**-02**9

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

	STITE/LOCATION			— ' _. —	BEGUN							
	7210 Bancro	ft Avenu	ie. Oaklai	nd. v.Á	12/27/9	31	BORING DIAMETER 8 Inches	GLE/BEARING	BORING NO			
	DRITTING CONTR	ACTOR			COMPLETE		FIRST ENCOUNTERED WATE	0 Degrees	MW-2			
potential a	Bayland Dr	illing			12/27/9		30 Feet	K DEPTH	· · ·			
	OPERATOR				LOCGED BY		STATIC WATER DEPTH/DATE					
	Tom Schmid				T. Lane		30 Feet	<u>.</u>				
	CME 75	بالتال			SAMPLING	METHOD			BOTTOM OF BORING			
	WELL MATERIAL		SLOT SIZE	FILTER PACK	WELL SEAL	na modih	ed split spoon		40 Feet			
	2" SCH 40 P	VC	0.020"	#2/16		ment over	hontonika	· · · · · · · · · · · · · · · · · · ·	WELL NO.			
	FIELD		WATER		1	TICIL OVE	Demonite		MW-2			
	HEADSPACE *	DEPTH	WATER LEVEL	WELL CONSTR.	CILAPHIC 1	MATERIA	L CLASSIFICATION	V & PHYSICAL	DECCRIPTION			
		1 -				ASPHAI						
		2 —	-			BASERO						
		3 —			////	Silty CLA	Y (CL) dark brow	wn. low plasi	icity 20-25% silt			
j					Silty CLAY (CL) dark brown, low plasticity, 20-25 trace fine to coarse sand, trace pebble gravel, dry.							
	0.0				Sandy CLAY (CL) yellow-brown, low plasticity, 30-							
	0.0	5				plasticity, 30-35%						
		6	-		<u>///</u>	TIE STILL	, trace pebble gra	avel, trace roo	otlets, moist.			
- 1	i	7	-		:::::: C	Gravelly	SAND (SW) med	i. brown, we	ll graded medium			
		8	_		フンナ 木t	o coarse	grained, 15% sul	b-rounded po	ebble gravel, moist.			
					////	114- OT 1	V (CT)	- rounded be	DOTE STAVEL, MOIST.			
İ	- 1	9			/////	шту СLА	Y (CL) medium	brown, low p	lasticity,			
l	0.0	10			//// 1	5-20% si	lt, trace medium	sand damn	1			
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- 1	İ	-	7 🔣		//// S	andy CL	AY (CL) medium	i brown, low	plasticity, 35-40%			
		14] 🖁		/// fi	ne sand,	trace rounded p	ebble gravel	Praducty, 00-20/0			
~ f	0.0	15	4		///			eppic Bidver,	YYEL.			
j	ļ	16			///2 Si	lity CLA	Y (CT.) medium	vollour brone	, low plasticity,			
		17	j		///	-	· · ·	A CITO M - DI O M I	i, low plasticity,			
		1			/// 13	D-2U% 511	t, trace angular p	ebble gravel,	trace charcoal			
		15			/// fr	agments	. wet.	_				
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	0.0	20 —			///							
ı	1	21				ravelly S	AND (SW) med	ium brown	27011 3 - 3			
		22		·倡引:::[::	cc	arse san	d 10-15% reall =	ium Diowil, i	weir graded			
	ļ	}] ::::				d, 10-15% well ro	rminea bepp	ie gravel, wet.			
1		23			///							
		24			/// G	ravellu C	T AY (CT)					
	0.0	25 —					CLAY (CL) medit	ιιι prown, lo	w plasticity,			
		26	:::	:圖劃::::1/2	/// 10	-15% pe	bble gravel, dam	p.				
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.1	ENVI	K @ L	MIME	NTA	L	TATTET	AND		A-4			
1	TECH	T AIM	OOT	יד הונו	, , ,	WELL CONSTRUCTION MW-2						
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	TE:				Dr Oil Station No. 11117							
 						1	7210 Bancroft Avenue					
Ar	PROVED BY: Free	derick G.	Moss, PE	No. 35162			Oakland, CA	.	9-029			
									l ·			

5/12/LOCATION 7210 Bancroft	Avenue, O	akland. CA	BEGUN 12/27/	O1	BORENG DIAMETER		BORING NO		
DIGHTER CONTRA	CIOR	andana, CA	COMPLET		8 Inches	90 Degrees	MW-2		
Bayland Dri	lling		12/27/		FIRST ENCOUNTERS 30 Feet	ED WATER DEPTH			
Tom Schmidt			TOCCED 8		STATIC WATER DEF	TH/DATE			
DRILL MAKE & MOD	£1.		T. Lane		30 Feet				
CME 75		<u> </u>	Califor	SAMPLING METHOD California modified split spoon 40 Feet					
WELL MATERIAL 2" SCH 40 PV	SLOTS		I WELL SCAL	-			40 Feet		
FIELD		20" #2/16	Neat ce	ment over	bentonite		WELL NO. MW-2		
HEADSPACE .		TER WELL VEL CONSTR	GRAPHIC .	MATERIA	J. CLASSIFIC	ATION & PHYSICA	1 14144-5		
	31			Gravelly	CLAY (CL)	medium brown	low placticity		
	33			20-30% s	ub-rounded	coarse gravel, w	et.		
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ECHN	AT OC	IES, II	ا ہے	WELL	CONSTRU	CTION MW-2	11.5		
		ITEO' II	YC.		BP Oil Station				
		 		- .	7210 Bancro	r 190, IIII/ ft Avenue	JOB NO.		
OVED BY: Freder	ick G. Moss, 1				Oakland	· · · · · · · · · · · · · · · · · · ·	j		

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

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. DEP TH (FT)	ERAPHIC LOG	DLOW/FT		AHO OCPA	HINTED SOL	CRELETE GREGG DRILLING & TEST LOCKED BY J. BRYSON SUPERMSORE S. WICKHAM SILARI DESCRIPTION	Ė
ا و		.	1			3" Asphalt & Surface	
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ركب 2			 		1	CLAY, block-grey, stiff, slightly moist,	some age no oddi o
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Completed By:

HUNTER ENVIRONMENTAL SERVICES, INC.

December 6, 1989

SOIL BORING LOG MW-3 AND WELL CONSTRUCTION MW-3

BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA PLATE

A-6

JOB NO. 9-029

CALLENGUATE SEALER DE 220 HOLLING (177) 112 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120 ACTION 120	LOG OF BORING NO. WW-3 PAGE 7 of 2 PROJECT HO 02-401-002 DATE: 12/6/89 CLICKE TOPA REF. ELEV. — STE LOCATION: EASTHONT MALL HETHOO: HOLLOW STELL OAKLAND, CA. AUGER BORING LOCATION: SEE FIG 1 HOLE CIA: 8° CRILLER GREGG DRILLING & TESTING LOCATION: STELL HOLLOW STELL DESCRIPTION DESCRIPTION PAGE 7 of 2 NET 12/6/89 REF. ELEV. — AUGER TO STELL HOLLOW STELL AUGER TO STELL HOLLOW STELL TO STELL HOLLOW STELL DESCRIPTION PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2 PAGE 7 of 2
	SUPERMSOR S. WICKHAM CHIEN WALLEL PG 3851 - 5
25 ND RING 0 30' SW 31 ND RING 0 35' SW 37 ND RING 0 35' SW 41 ND RING 0 35' SW 41 ND RING 0 35' SW 51 ND RING 0 35' SW 51 ND RING 0 35' SW 51 ND RING 0 35' SW 51 ND RING 0 35' SW 51 ND RING 0 35' SW 51 ND RING 0 35' SW 51 ND RING 0 35' SW 52 ND RING 0 35' SW	As chare.
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HUNTER ENVIRONMENTAL SERVICES, INC.

Completed By:

December 6, 1989

SOIL BORING LOG MW-3 AND WELL CONSTRUCTION MW-3

BP Oil Station No. 11117

7210 Bancroft Avenue
Oakland, CA

PLATE

A-7

јов NO. 9**-**029

	1			_ (
	VLOCATION	ft Arrows	ie, Oaklai		BEGUN		BORING DIAMETER	GLE/SEARING	BORING NO		
Ditti	TTMC COMIX	ACTOR	ie, Oakiai	nd, CA	7/22/9		8 Inches	90 Degrees	MW-4		
Ba	yland Di	rilling			1	COMPLETED FIRST ENCOUNTERED WATER DEPTH 7/22/92 31 Feet					
	OPERATOR Frank Bartolovich				LOGGED	īΥ	STATIC WATER DEPTH	/DATE			
	T WAKE & MC				T. Ramirez 32.5 Feet						
CM	Æ 55			•	Califor	c METHOD Mia modifi	ed split spoon		BOTTOM OF BORING		
7" C	L MATERIAL SCH 40 P	VC.	SLOT SIZE	FILTER PACK	METT SEV	T			40 Feet		
		1	0.020" 問	#2/12	Neat c	ement with	ı 5% bentonite o	ver hvdrated pellet	WELL NO. S MW-4		
BLOWS/	HEAD- SPACE	DEFIH	WATER LEVEL	WELL CONSTR.	1			IION & PHYSICAI			
]	1				ASPHAI	T				
	ľ	2			****	BASERC	CK				
ł		3	_			CLAY (C	L) medium b	rown, moderate	1		
1 _						5-10% m	edium to coar	rown, moderate	plasticity,		
7 24	462	'	7 🖁			Can de C	LAV (CT)	se sailu, dry.			
24	402	,	j			sandy Ci	-AY (CL) ligh	t brown, low pla	sticity, 40% fine		
		6 -				to mean	m angular sa	nd, dry.			
		7	┦ 🖁		///5		AV (CT)				
į		8 —	-			parity CI	AI (CL) gree	nish-brown, mo	derate plasticity,		
4		9	-			50% fine	sub-angular ti	o sub-rounded s	sand. 5-10%		
12	106	10 —]		////	silt conte	nt, dry.				
23		11			///>						
		12			////	Sandy CLAY (CL) medium brown, low plasticity,					
		13				75_30% fi	70 to spenie	1	Plasticity,		
	ļ		7 🞇		25-30% fine to coarse angular to sub-rounded sand, occasional gravel clast up to 5cm, dry.						
13		14	1								
14 22	464	15						1 , , -			
44		16									
1 1		17									
1		18									
		19			/// 5	ander CI	AN (CIT):				
10	442	ł	:::			andy CL	AI (CL) interl	bedded light bro	wn and dark		
13	442	20			/// 0	rown iay	ers. Dark bro	wn sandy clay i	c 30% fine to		
	1	21			/// **	reminit 9	anu, willi mo	gerate plasficity	Tight brown		
		22			/// sa	andy clay	is 20% fine s	and, 10% silt co	ntent, with low		
	ļ	23 —			/// p	lasticity.	Both are dan	np, with increas	· · · ·		
3		24				av conto		up, with increas:	ing moisture,		
13	673	25				ay come	it and plastic	ity with depth.			
21		26				10 C.A	3.TD (0.0)				
					緩緩し	iayey 5A	אט (SC) med	lium brown, fin	e to medium		
.	İ	27 —	J::::		SU SU	ib-round	ed to rounded	l sand. 5% oravi	el with clasts		
		25			終刻 uj	p to 3cm	. 15% clay cor	itent. moist	- 17 - 22 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	*PID	∞ —									
[((ppm) :	30									
					<u>//</u>						
F	HYD	$R \triangle -$									
						SC	IL BORING I	LOG MW-4	PLATE		
\mathbf{E}_{\cdot}	NVII	R®N	IME	NTAI	Γ. Ι		AND		۸ ٥		
المراجعة	7 (*) T T T	- A±	~:~		J	WELL	CONSTRUC	CTION MW-4	A-8		
TI	しロ」	Γ Λ ⋒ Γ	UGII	ES, II	NC.I	1					
ATE:							BP Oil Station I		JOB NO.		
							7210 Bancroft		JOB 140.		
LPPROVE	DBY: Fred	lerick G.	Moss, PE N	Vo. 35162			Oakland,	CA	9~029		
						<u> </u>					

	LOCATION		~		BEGUN		BORING DIAMETER	. NGLE/BEARING	HOURIS NO.		
DEU 11	Bancrof	COP	ie, Oak	land, CA	7/22/		8 Inches	90 Degrees	MW-4		
	land Dri				COMPLE		FIRST ENCOUNTERED WATER DEPTH				
OPERA	NTOR		·	· · · · · · · · · · · · · · · · · · ·	7/22/		31 Feet				
Fran	Frank Bartolovich				LOCCED T. Ra	nirez	STATIC WATER DEPTH/	DATE			
ORILL I	MAKE & MOD	ЖI.				AC METHOD	32.5 Feet	······································			
	ME 55				Califo	rnia modif	ied split spoon		BOTTOM OF BORING		
	material IH 40 PV	<i></i>	SLOT SIZE		WELL SE	AL			40 Feet		
	FIELD FIELD		0.020' 띄	' #2/12	Neat	cement wit	h 5% bentonite ov	ver hydrated pellets	MW-4		
1001	ESAYCE . HEYD-	DEPTH	TEAEL MY LE		GRAPHIC LOG			ION & PHYSICAL			
13 0/6 6 8	691	31 — 32 — 33 — 34 —				30% fine occasion	to coarse, sub al gravel clast	ium brown, low -angular to roun up to 2cm, mois , high plasticity,	ded sand, t to wet.		
9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					to round	sand, 10% gra led clasts, 20%	to light brown, fivel up to 5cm, s silt content, satu	ub-rounded trated.		
3 6 8		39 40	- -			5% roun	L) med. brown ded medium s	n, moderate plast and, wet.	icity, approx.		
3		42 43 44 45							,		
		46 47 48 49 50									
	; ;	51									
Ì	PID #	8						·			
	YDI VVIF	_	IMI	ENTA	L		OIL BORING I AND L CONSTRIIC		PLATE A-9		

ENVIR ® NMENTAL TECHNOLOGIES, INC. DATE APPROVED BY: Frederick G. Moss, PE No. 35162

AND WELL CONSTRUCTION MW-4

JOB NO. 9-029

BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

	1, 1,	-1		. ((
	STE/	LOCATION	,		BEGUN		BORNIC -					
	7210	O Bancro	ft Avenue	, Oakland, C	A 7/23/9	92	8 Inches	AGLE/BEARING	BORING NO			
بنسير	DRILL		RACTOR		COMPLET		FIRST ENCOUNTERED W.	90 Degrees	MW-6			
		land D	rilling		7/23/9		31.5 Feet	VIEK DEALH				
٠.		ATOR			TOCOED B	ξY	STATIC WATER DEPTH/I	\.				
		t Voss	200			T. Ramirez 31.5 Feet						
	CM	. элке е мо Е 75	NOET,		SAMPLIN	G METHOD			BOTTOM OF BORING			
		MATERIAL	S	LOT SIZE FILTER	Califor	ma modifi	ed split spoon		40 Feet			
İ	2" S	CH 40 P		0.020" #2/		Neat cement with 5% bentonite over hydrated pellets 40 Feet WELL NO. MW-6						
	ŝ.	FIELD	띨			entent with	13% bentonite ov	<u>er hydrated pellet</u>	s MW-6			
	BLOWS/ ROOT	HEAD.	DEPTH WA	WATER WELL LEVEL CONS	L GRAPHIC	MATERIA	L CLASSIFICATI	ON & PHYSICAI	DESCRIPTION			
		*PID	1		CONTRACTOR AND ADDRESS OF THE PARTY.	ASPHAI			11011			
- 1		(ppm)										
		(PPIII)	1 2			to mile	L) dark brown	, high plasticity	, 10% sub-angular			
- 1	4		3			to sub-re	ounded fine to	medium sand,	moist.			
	6		4			Sandy CI	AY (CT) dark	brown high -1				
- 1	9	0.0	_			COSTSP SS	nd with occasi	prowii, mgu bi	asticity, 25% fine to			
- 1		0.0			888////		THE WILL OCCUSIO	mai Braver clas	ts up to 3cm, drv.			
			6			CLAY (C	L) light brown,	moderate plas	ticity, 5-10% fine			
			7 —			sand, dry	. ,	rate Plan				
ĺ			8			,)]			
	6		"									
	9		9 —				13//65					
	15	0.0	10 -			Sandy CLAY (SC) dark brown, high plasticity, 20						
ł			11 -			to coarse angular to sub-rounded sand, occasional gravel						
`	- 1					rlasts un i	:0 4cm, dry.		, occasionar graver			
	1	- 1	12 —			up	. Lui, my.		,			
	5	İ	13				·		į			
,,	12		14			Sander OT	AV (CT) - 11	T				
	16	0.0	15		////	andy CL	AT (CT) ASTION	v brown, mode	rate plasticity,			
]	0.0	.,		2////2	20% fine t	o medium san	d. 10% silt con	tent, occasional			
		ļ	16		//// 2	ravel clas	sts up to 8cm, c		icite, occasional			
			17		////	, <i>-</i> — — —	an ah mami' (шу.				
			18						1			
	8	İ	,,		////	1	130/000	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				
	12		19		:::////	andy CL.	AY (CL) light b	rown, moderat	e plasticity, 40%			
	15	0.0	20		∵//// fi	ine to coa	use sand occa-	sional an audi-	to sub-rounded			
		1	21		3///	- 15 COC	outly octa	morrar ariginar	to sub-rounded			
			22		:://// 8	raver clas	ts up to 10 cm	, moist.				
			11		··////							
1 7	10	-	23 —		:://// S	andy CL	AY (CL) same a	is above except	only 25% sand			
1	3	1	24		::///\	ontent.			oray 20% sand			
ı	.6	0.0	25			OILLEILL.						
*		2.0	_									
1		1	26				•					
1	1		27									
1	ļ		28		://// G	ravelly C	LAY (CL) med	lium brown, 25	67 amout1			
9	- 1	ı			1/// 21	h-round	osia (CC)		™ ariginar to			
16	1	1	29		:////	1 1	-a Braver clasts	s up to 5cm, 20°	% fine to coarse			
20	0	0.0	30		:://// sa	ind, decre	ease gravel and	l sand content	with depth, moist.			
					1///			* •				
	Н	IYD	$\overline{\mathbf{p} \wedge_{-}}$									
						sc	IL BORING L	OC MUST 6	PLATE			
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	لما	IVE	IX @ IX.	MENT	AL	¥17774 +	AND		A-12			
1	TT	CI.	NTA - ~	GIES,		WELL	CONSTRUCT	TION MW-6				
L	<u> </u>	$\underline{C}\Pi$	ī⊿ <u>⋒</u> Γ (JGIES,	INC.							
						_	BP Oil Station N	o. 11117	- IORNIO			
						7210 Bancroft Avenue JOB NO.						
DAT	TE:					1			100110.			
DAT	TE:	BY: Free	ierick G. M	oss, PE No. 351	162		7210 Bancroft A Oakland, (9-029			

STE/LOCATION 7210 Bancroft Avenue, Oakland, CA					and CA	BEGUN		BORING DIAMETER	ANGLE/BEARING	BORING NO	
DESTRICT	TING COMII	UCTOR	<u> </u>	CILLI	anu, CA		/23/92 8 Inches 90 Degrees		90 Degrees	MW-6	
	land D					7/23/		FIRST ENCOUNTERED V	WATER DEPTH		
OPER,	ATOR					1/23/ LOGGET		31.5 Feet			
	t Voss					,	mirez	STATIC WATER DEPTH, 31.5 Feet	DATE		
L/VLZ DKITT	MAKE & M E 7 5	DDEL				SAMPLI	NG METHOD				
	E /O MATERIAL		E7	OT SIZE	· -	Califo	rnia modi	fied split spoon		BOTTOM OF BORING 40 Feet	
	CH 40 P	VC		.020"	FILTER PA #2/12		ial.				
	· — — —						cement wit	h 5% bentonite o	ver hydrated pellets	MW-6	
POT TOOT	SPACE *	DEPIH	SAMOT	WATER	WELL CONSTR.	GRAPHIC			ION & PHYSICAL		
	1	31 —					1				
Ī		32		<u> </u>	::: :≣ ::	:////	Silter CT	Λ V (CT)11 -	1 000		
f				=	::: ::		July CL.	VI (CT) AettoA	v-brown, 30% silt	content, 10% su	
4		33	П				angular	to sub-rounded	d grävel clasts up	to 10cm appro	
20		34 —	H				5% med	ium to coarco	sand, increase sa	to rocar, appro	
.U		35 —	Н	}			المارات	turr to coarse t	sand, increase sa	nd content with	
		36	Ц	Ì	::: []		depth, w	ret.	÷		
		37		1		0000	Sandy C	RAVEL (CD) 1:	cht bro-		
37					:::≣:::	0000	7cm 200	**************************************	ght brown, grave	el clasts up to	
-	32 — Y 33 — 34 — 35 — 36 — 37 — 38 — 38					. e.e.e.e	7 thi, 30%	o fine to coarse	e sand, 10% silt c	Ontent, saturated	
39						Silty SAND (SM) light grey, fine to medium sand with					
				[.			<5% coar	rse sand 35%	silt content, satur	menti serici MIII	
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							St	OIL BORING I	OG MUZZ	PLATE	
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APPROVED BY: Frederick G. Moss, PE No. 35162

DATE:

AND
WELL CONSTRUCTION MW-6

BP Oil Station No. 11117
7210 Bancroft Avenue
Oakland, CA

9-029

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

	•				<u> </u>			(
SITE/L	OCATION				GUN		BORING DIAMETER	ANGLE	RING	BORING N	0	
	7210 Banc		<u>, Oakla</u>	ınd	10/6/9		8"	90		MW-7	OF BORING	
	NG CONTRAC t Hazmat		Corp.		10/6/9		31.0' damp			45.0'		
-	MAKE & MOD		OPERAT		LOCGED						i i	
	ile B-57		Euger stor su	<u>e Nunes</u>	F. Mai	BITONI 43.67 10/10/94 MW-7 NG METHOD BOTTOM OF WELL						
	MATERIAL Sch 40		0.020				Split Spoon			45.0'		
FILTER	PACK	·	WELL SI				•			PLANNED Monito	· •	
/5/	fid FIELD HEADSPACE (ppm)	DEPTH	Bento WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	PHIS MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION						
		1				3" Asphalt over baserock; Gravel (GP) with some reddish brown clay.						
		3	_			Silty (CLAY (CL); very	dark br	own, stiff.	drv.		
į		4	_			 						
88	0.0	5	_			, ,	y CLAY (CL); yel		wn, very s	stiff; tra	ace very	
		6	4			fine g	grained sand, dry	•				
	•	7	_			1						
*												
		9				1						
65	0.0	10	-			Sandy CLAY (CL); reddish brown, iron oxide deposits,						
100	0.0	11	_			Sand	y CLAY (CL); red	idish br	own, iron	oxide	deposits,	
		12	_			black	streaks like coal	, weп gi	raded coar	se grai	nea,	
		13	_				ngular to angular					
J		14	_			Claye	ey SAND (SC); br	own, w	ell graded	coarse	e sand, some	
90	0.0	15	_			 -	ngular to angular	r gravel	, some fine	e-grair	ied sand,	
90	0.0	16				1 \	oist.	-	·			
		17	_			Grav	elly CLAY (CL);	brown,	iron oxide	e depo	sits, some	
		15					se gravel, few coa					
1		1,0				1	•					
		20				<u> </u>						
57	0.0	21				Sand	y CLAY (CL); br	own, m	edium stif	f, well	graded	
] [coars	se sand, some an	gular to	subangul	ar gra	vel, dry.	
		22					·		~			
25		24			:\///							
50					<i>\///</i>	3						
w/ 5"	0.0	25			0000	Enco	ountered rock/gr	avel (G	P) at 25.5 f	eet. D	rilled out to	
rec		26 MW-7-25			777		5.5 ft.	-				
50	1	77				/I \	y CLAY (CL); bi	own st	iff, well or	aded.	subangular to	
w/		28				Janau	dar, coarse grain	ed sand	: some fine	e grair	ned angular	
10'	t	29				Oram	el; few fine grain	ed sand	, [,	O	5	
rec	.	30			<u>::{///</u>	10.01	/ /					
	HYL)R 🍐	Let				SOIL BORING LOG PLATE C-1					
*		_		ENT	ΑT			AND	NT DY 4 777			
7		•				11	WELL CONSTR	UCTIO	N DIAGK	AIM	SHEET 1 OF 2	
	TECH	IN 🔊	LO	GIES	, IN	$\mathbb{C}. $				-		
							M	W-7	7	}	JOB NO.	
DA	TE: IL	12/94	<u>-</u>				213				9-029	
AP	PROVED'B	Y: /5	>									
<u> </u>	······································					,						

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TE/LOX	CATION					אני		BORING DIAMETER	ANGLE/B	[]	BORING NO		
BP/72	210 Banc	roft A	A ve,	. Oakla	ınd	10/6/94		8"	90*		MW-7		
RILLING	CONTRAC	TOR				10/6/94		FIRST ENCOUNTERED W	ATER DEPTH		45.0'		
	Hazmat		ung	OPERAT	OR	LOGGED BY		STATIC WATER DEPTH/	DATE		WELL NO.		
	le B-57	7514	Ì		e Nunes	F. Maro		4 3.67 10/10/94			MW-7		
VELL M	ATERIAL			SLOT SE		SAMPLING	METHOD			ų,	BOTTOM OF WELL		
VC S	Sch 40			0.020		CA Mod	CA Modified Split Spoon 45.0'						
ILTER P	ACK	Same!		WELL SI			Monitoring						
73 M.C	onterey S	Sanu	1	pento	mile	·							
ROOT H	PID FIELD TEADSPACE (ppm)	DEPTI	SAMPLE	WATER LEVEL	WELL CONSTR	17777		IAL CLASSIFICAT					
		31 —						CLAY (CL); bro					
		32 —				<i>\///</i>	grained	l, subangular to	subrou	ınded san	d; some fine		
							grained to coarse grained, angular to subangular gra						
İ		33 —	\neg			1111	damp.	Ü		•	·		
		34 —		ĺ			r						
50	0.0	35	+	1		<i>\///</i> >-							
w/		36 —	_	ļ		3///	CLAY (CL); yellowish brown, very stiff, damp.						
6"		37 _]		1///							
rec.]		1///							
		38	+	1		X///X							
Ì		39 —	-	1		Y///		T 101/073 17			a stiff and sint		
35	0.0	40 -	_	-		1///	Silty C	y stiff, moist.					
w/	0.0	41 -	\perp	_		X////_							
8" 42 — 1							Gravel	ly CLAY (CL);	yellowis	h brown,	fine to coarse		
rec.		14 -]				d angular grave					
		43 -		Ã		1///		ined sand, mois					
		44 -		-} ₹			<u></u>						
82		45		<u> </u>		<u>:YZZZZ</u>	CLAY	(CL); yellowish	brown,	trace fine	grained sand.		
-		_		1		`	\						
]		1 _					T.D. = 4	15.0"					
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	HYI)R	A ·	-				_	RING L	.OG	PLATE C-1		
1			_		****	. ~		A	ND		[C-1		
I	ĽNV]	IR	A	NM	ENTA	ΛL	w	ELL CONSTRU		I DIAGRA	M CTTTT A OF A		
f											SHEET 2 OF 2		
]1	LCL	iN i		LO(GIES,	, INC	C.						
<u> </u>	 		_					$\chi_{\mathcal{X}}$	W-7		JOB NO.		
DATE: 1/2/94								171	Y Y - /		0.000		
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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	OCATION		0.11	1	JEGUN		BORING DIAMETER	ANGL ARING	BORLING NO			
	7210 Band		, Oaki	and	10/6/9		8"	90.	MW-8			
41 THE	t Hazmat		Согр.	•	10/6/9		32.0'	WYIEK DEVIK	BOTTOM OF BORING 40.0'			
-	MAKE & MOI	DEL	OPERAT	. —	LOGGED		STATIC WATER DEPTH		WELL NO.			
	oile B-57 material		Euger SLOT SU	<u>re Nunes</u>	F. Mai		28.51' 10/10/9)4	MW-8			
496	Sch 40		0.020		1	G METHOD			BOTTOM OF WELL			
FILTE	PACK		WELL 5	EAL	1	Modified Split Spoon 40.0'						
#3 N	Monterey S	Sand	Bento	nite	· · · · · ·	Monitoring						
SWOJE POOT	PID FIELD HEADSPACE (ppm)	DEPTH K	WATER LEVEL	WELL CONSTR	GRAPHIC LOG	MATE	RIAL CLASSIFICA	TION & PHYSICAL	DESCRIPTION			
		1				Sandy	topsoil (OL/OF	I); brown.				
		,				Silty C	T.AY (CL): dark	gray, very stiff, dry	,			
		,				01117	Dill (CD), dark	gray, very suir, ary	•			
		3 —					•					
		4										
		5										
d .		6 —				Silter	TAY (CI) · ligh ·	brown, stiff; trace	fine orginad			
21		7				sand,		brown, sun; nace	mie gramed			
		8				Saulu,	ui y.					
		9										
190	0.0	10				Sandy	CLAY (CL)- ligh	nt brown; some fin	e to coarce erain			
	0.0					ed sar	nd some fine-ara	ained angular to c	whomoular grand			
		11				ed sand, some fine-grained, angular to subangular gravel						
		12				uace c	race coarse grained gravel; trace silt, dry.					
		13										
7		14										
₹50	0.0	15					•					
w/		16				Grave	lv CLAY (CL); li	ght brown; some f	ine to coarse			
6"		17	į			graine	d. well graded. s	subangular to subr	ounded gravel			
тес.		18				some :	well graded me	dium grained sand	1 moist			
								Diamica sain	2, 1110101.			
		19	į									
80	0.0	20	į					•				
		21 -	Ę	554 5555		Sandy	CIAY (CI) · ligh	nt brown, some fin	o grained sand			
· ·		22			////	moist.		it brown, some mi	5 anieu sailu,			
		23	,			1110191.	•					
		24	}:									
E0	0.0	MW-8-25	[0000	Sandir	CRAVET (CW)	fine to some co-	sing trall and deal			
50	0.0		.		0000(orarol	. como gas to es	narco con incal1	ined, well graded			
w/ 6"		26	ļ.		0000	graver	, some mie to co	parse grained, well	-graded sand;			
rec.		27	}		0000	u ace c	lay, moist to we	[.				
		28	The second		0000							
		29	-									
		30	:		0000							
				···===:··i	~,~,~,~ <u>,</u>							
	HYD	R 🛦 🗕					SOIT RO	RINGIOG	PLATE			
Ráil		_				SOIL BORING LOG PLATE AND C-1						
	:NVI]	R \land N	IMF	ENTA	L	TA			1			
17						WELL CONSTRUCTION DIAGRAM SHEET 1 OF						
1	CUHI	ч 📎 Т	$\mathcal{O}G$	IES,	INC	•						
						M W - 8 JOB NO.			JOB NO.			
DATE 11/2/94						141 44 - 0						
APPR	OVED BY:	(P	·			9-029						
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	E/LOCATION				BEGUN		BORING DIAMETER	ANC JEARING	BORING NO				
	7/7210 Band				10/6/94		8"	<u> </u>	MW-8				
	illing contra est Hazma		· C		COMPLETED	ס	FIRST ENCOUNTERED	WATER DEPTH	BOTTOM OF BORING				
	IL MAKE & MO		OPERA		10/6/94 32.0' LOGGED BY STATIC WATER DEPTH/DATE				40.0'				
	obile B-57			ne Nunes		WELL NO.							
	LL MATERIAL		SLOT SI		SAMPLING !	METHOD	1 2021 10/10/9	<u> </u>	MW-8				
	/C Sch 40		0.020				lit Spoon		40.0'				
	TER PACK	, ,	WELL S						PLANNED USE				
#.	Monterey S	and	Bente	onite		Monitoring							
BLOWS/	PID FIELD HEADSPACE (ppm)	DEPTH X	WATER	WELL CONSTR.		MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION							
		31	Ţ		0000 A	Ϋ́ i							
35 w/ 6"	,	34			C S	layey S and; so	SAND (SC); br me clay; few fi	own, medium gra ine grained, subro	ained, well-graded				
rec. 36 gravel, wet.													
40 38 39 39 39													
w/	·	40				As abor	ve.						
6"					T	.D. = 40	.0'						
rec	-				•								
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	HYDI	R & _					פחד פחי	RING LOG	PLATE				
									C-1				
	ENVII	$S \triangle N$	JMF	ENTAI	f.			ND					
					LL CONSTRU	CTION DIAGRA	M SHEET 2 OF 2						
	ECH	IAI	00	HES.	INC.				SHEEL Z OF Z				
							'A 2" "	AT O	TORNIO				
DA'	TE: 1	1/2/44				M W - 8 JOB NO.							
<u> </u>		1-117				9-029							

APPROVED BY:

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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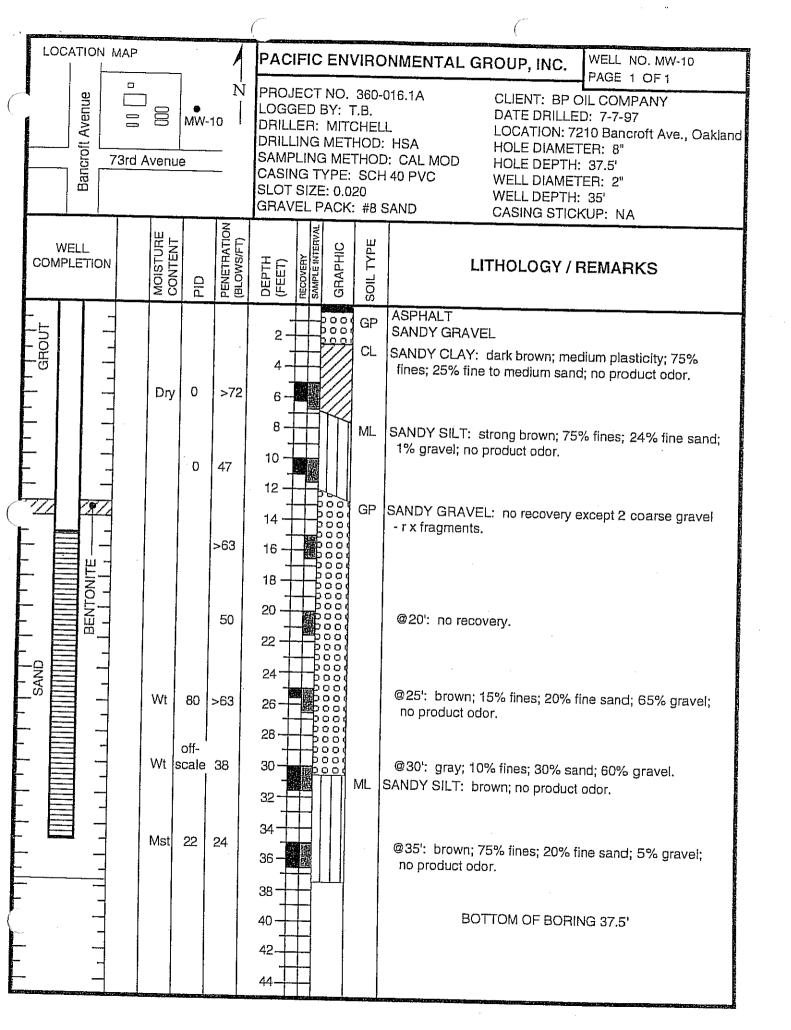
		("			(
ITE/LOCATION		NUL		BORING DIAMETER	ANGLE/8	NG	BORING NO	
3P/7210 Bancroft Ave	, Oakland	10/6/94		8"	90		MW-9	
RILLING CONTRACTOR		10/6/94		FIRST ENCOUNTERED W	VATER DEPTH	BOTTOM OF BORING 40.0'		
M Hazmat Drilling	COPP.	LOGGED BY		STATIC WATER DEPTH/DATE			WELL NO.	
Mobile B-57	Eugene Nunes	F. Maroni		28.45' 10/10/94		75477777	MW-9	
VELL MATERIAL	SLOT SIZE		AMPLING METHOD BOTTOM OF WELL A Modified Split Spoon 40.0'					
PVC Sch 40 ilter pack	0.020" WELL SEAL	I CA Modif	PLANNED USE					
#3 Monterey Sand	Bentonite				W		Monitoring	
PID FIELD DEPTH WE WAS		GRAPHIC M						
2		0000 Ba	ckfill;	GRAVEL (GP); cobble	-sized.		
5		CI	LAY ((CL); reddish br	own, sti	ff, dry.		
80 0.0		CI	LAY (CL); light brow	vn, hard,	trace fine	e grained sand, dry.	
90 0.0 15		Si	lty CI		brown,	hard, dry		
20 21 22 23 24 24		A	s abo	ve, moist.				
70 0.0 25 - 25 - 26 - 27 - 28 - 29 - 30 - 30		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	layey vell gr	SAND (SC); b aded, rounded	rown; fi l to subr	ne to med ounded,	dium grained, moist.	
HYDR				- -	ORING I	LOG	PLATE C-1	
ENVIR			w	ELL CONSTR	AND UCTION	N DIAGR	AM SHEET 1 OF 2	
DATE: 11/2/94 APPROVED BY:	LOGIES	, INC.		M	W-9		JOВ NO. 9-029	

٥.				(Anna .			(
SITE/I	OCATION			•	EGUN		BORING DIAMETER	ANGL'		ORING NO			
BP/	7210 Banc	rott Av	e, ∪akl	and	10/6/9 COMPLET		8" FIRST ENCOUNTERED V	96		MW-9 OTTOM OF BORING			
	it Hazmat		e Corp		10/6/9		27.5'	TATES DE II	· ·	40.0'			
L	MAKE & MOD	DEL.	OPERA	TOR	LOGGED		STATIC WATER DEPTH			VELL NO.			
11.Jt	ile B-57 MATERIAL	-	Euger SLOT SI	ne Nunes	F. Mar	oni : метнор	28.45' 10/10/9	4		MW-9 юттом of well			
	Sch 40		0.020			odified Spl	it Spoon			40.0'			
	PACK	٠ ع	WELL S			PLANNED USE							
	Monterey S		Bento	onite	<u> </u>				i	Monitoring			
BLOWS/ FOOT	FIELD HEADSPACE (ppm)	DEPTH	WATER	WELL CONSTR.	GRAPHIC LOG		AL CLASSIFICA						
		31	-			Clayey SAND (SC); brown, fine-grained, well-graded, subrounded to rounded sand; few fine to coarse grained							
		32	1			angular to subrounded gravel, wet.							
1		33 —	1										
		34	1			Gravelly CLAY (CL); brown, fine grained, well grade subangular to subrounded gravel; some fine grained							
70		35	-			sand, we		taea gr	aver, some	inte granteu			
		36	-			sanu, we	21.						
		37											
`		38	4										
		39	_			A 1.	_		•				
		40			1///	As abov	7e.						
			1			T.D. = 40	.0'		•				
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	HYD	K 🚱 .					SOIL BC		.OG	PLATE C-1			
. ,		_		ENTA	T			ND		1			
						1 1	ELL CONSTRU	JCTION	I DIAGRA	M SHEET 2 OF 2			
	ECH	$N \wedge$	LOG	GIES,	INC	SHEET 2 OF							
				- ,		MW-9 JOBNO.			JOB NO.				
DAT	E: (1/	2/94					147	rray		9-029			
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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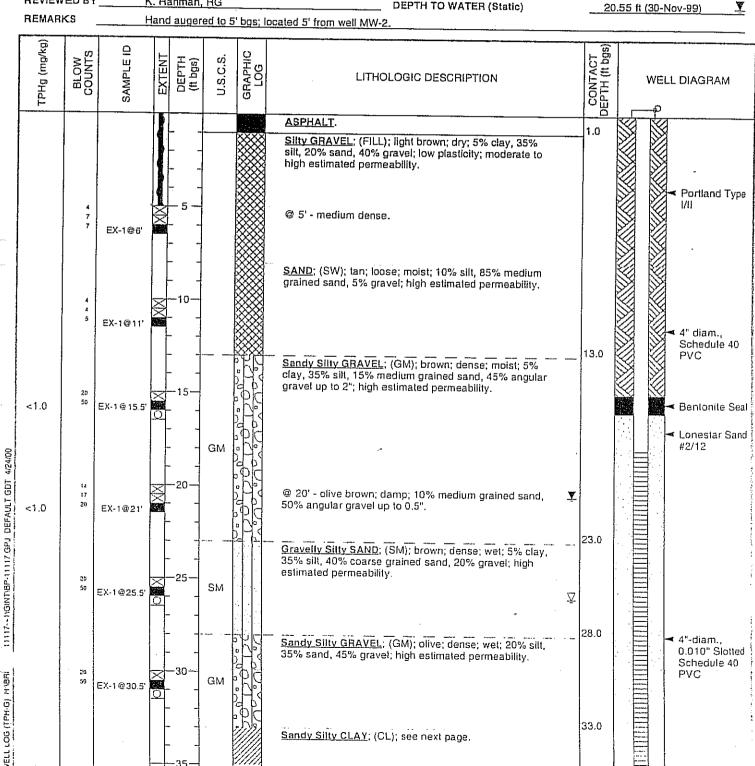




Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608 Telephone: (510) 420-0700

Fax: (510) 420-9170

CLIENT NAME JOB/SITE NAME LOCATION PROJECT NUMBER DRILLER	BP Oil Company BP-11117 7210 Bancroft Avenue, Oakland, California 852-1546 V&W Drilling	BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED WELL DEVELOPMENT DA GROUND SURFACE ELEV		30-Nov-99 Not Surveyed	
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATI	ON NA		
BORING DIAMETER	10"	SCREENED INTERVAL	18 to 38	ft bgs	
LOGGED BY	J. Jones	DEPTH TO WATER (First I	Encountered)	26.0 ft (30-Nov-99)	∇
REVIEWED BY	K. Rahman, RG	DEPTH TO WATER (Static)	20.55 ft (30-Nov-99)	Ţ
REMARKS	Hand augered to 5' bos; located 5' from well MW-2.	•	····		





Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	BP Oil Company	BORING/WELL NAME	EX-1
JOB/SITE NAME	BP-11117	DRILLING STARTED	30-Nov-99
LOCATION	7210 Bancroft Avenue, Oakland, California	DRILLING COMPLETED	30-Nov-99

LOCATI	ON	7	210	Bancre	oft Ave	akland, California DRILLING COMPLETED 30-Nov-99	•			
	,						Continued from Previous Page			
TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WEL	LL DIAGRAM
	12 60/6	EX-1@36'			CL		Sandy Silty CLAY; (CL); brown mottled with black; hard; damp; 45% clay, 35% silt, 20% very fine grained sand; low plasticity; low estimated permeability.	39.5		Bottom of Boring @ 39.5 ft
איני היא היא היא היא היא היא היא היא היא הי			And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t							
מינים (וועות) מינים	Addition of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st				T. A. A. A. A. A. A. A. A. A. A. A. A. A.					

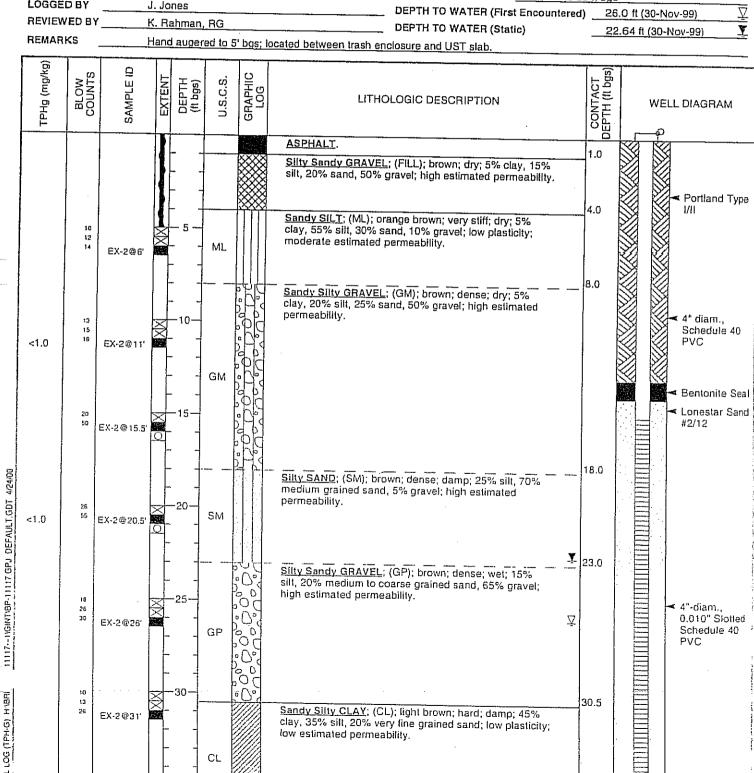


VELL LOG (TPH-G) H-VBRI

Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME _	BP Oil Company	BORING/WELL NAME	EX-2				
JOB/SITE NAME _	BP-11117	DRILLING STARTED	30-Nov-99				
LOCATION	7210 Bancroft Avenue, Oakland, California	DRILLING COMPLETED	30-Nov-99				
PROJECT NUMBER _	852-1546	WELL DEVELOPMENT DA	TE (YIELD)	30-Nov-99			
DRILLER _	V&W Drilling	GROUND SURFACE ELEV	· · · · · ·	Not Surveyed			
DRILLING METHOD _	Hollow-stem auger	TOP OF CASING ELEVAT		THOS GRIVEYED			
BORING DIAMETER _	10"	SCREENED INTERVAL	15 to 35	ft hae			
LOGGED BY	J. Jones	DEPTH TO WATER (First					
REVIEWED BY	K. Rahman, RG	DEPTH TO WATER (Statio	•		<u>\</u>		
REMARKS	Hand augered to 5' bgs; located between trash en		'1	22.64 ft (30-Nov-99)	Ā		





Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	BP Oil Company	BORING/WELL NAME	EX-2
JOB/SITE NAME	BP-11117	DRILLING STARTED	30-Nov-99
LOCATION	7210 Bancroft Avenue, Oakland, California	DRILLING COMPLETED	30-Nov-99

LOCATIO	DN			Bancro	oft Ave	nue, O		30-Nov-99			
							Continued from Previous Page	. ,,,,,,,,,			
TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM
	10 13 32	EX-2@36'							36.5		Bottom of Boring @ 36. ft

1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING

Borehole ID: A-1

Total Depth: 46.5 feet bgs.

Total Dopin. 40.5 feet bgs.			
DRILLING INFORMATION			
Drilling Company: Gregg Drilling and Testing, Inc.			
Driller: Paul Rogers			
Type of Drilling Rig: Geoprobe			
Drilling Method: 4.25" Simco Augers			
Sampling Method: Split spoon, every 5'			
Date(s) Drilled: 9/27/05			
NFORMATION			
Boring Location: Adjacent to north west enriance on Bancroft Ave.			
Boring Diameter: 4.25"			
Boring Type: Exploratory			

L								
Depth (ft bgs)	Symbol	Lithologic Description		USCS	PID (ppm)	Sample ID	Recovery	Comments
F- 0		SPHALT	<u> </u>	, ·	· · · · ·	·	1	<u></u>
2	Ci di Si Si Si Si Si Si Si Si Si Si Si Si Si	CLAYEY SANDY GRAVEL: Very dark grayish bro ense, dry, 40% angular gravel, 30% fine - coarse lay, 10% silt. ILTY CLAY: Very dark grayish brown (10YR 3/2 5% silt, 5% fine med sand, minor gravel, medium ILTY SANDY CLAY: Dark yellowish brown (10Y lay, 30% fine - medium angular sand, 20% silt, n	angular sand, 20%), stiff, dry, 80% clay, n plasticity, no odor. R 4/4), stiff, dry, 50%	GP CL				Boring grouted with neat Portland Cement. Top 3" finished to grade with cement.
6 8	UJ.	p to 1 cm diameter, no odor.			0	07:45 A-1 @ 6 - 6.5		Top 5' logged from hand auger / airknife cuttings.
10	SI	ILTY CLAY: Dark yellowish brown (10YR 4/4), s 5%silt, 5% medlum sand, no odor.	liff, dry, 70% clay,		1	07:50 A-1 @ 11 - 11.5		
14	fin @	LAYEY SAND: Grayish brown (10YR 5/2), medine sand, 30% day, no odor. 215.5' silt content increases 65% fine - medium sow silt	. •	SM	0	07:52 A-1 @ 16 - 16.5		
20 22 22 22	an an	LAYEY GRAVEL: Yellowish brown(10YR 5/4), d ngular medium gravel up to 1 cm diameter, 20% edium sand, no odor.	ense, moist, 65% clay, 15% angular	GM	- 1	07:58 A-1 @ 21 • 21.5 08:00 A-1 @ 22.6		*

UR	2	LOG OF BORING	E	- Bore	hole I	D: A	-1
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments
24 26 11 28		@25' becomes wet.		1	grab water sample 08:05 A-1 @ 25.5 - 26		
30 32	00000	GRAVELLY SAND: Gray (5Y 5/1), loose, wel, 70% fine -coarse rounded sand, 30% subrounded gravel up to 1.5cm diameter, no odor.	SM	2	08:15 A-1 @ 30.5 - 31		
34 	0000000		*****	2	08:205 A-1 @ 35.5 - 36		
— 40 — 42	00000	SANDY GRAVEL: Dark gray (5Y 4/1), loose, wet, 65% fine angular gravel up to 30 mm diameter, 20% fine - coarse sand, 15% silt, no odor.	GM	116	08:25 A-1 @ 39 - 39.5		Hydropunch driven from 32' to 34 in separate hole, 3 feet from A-1. After 1 hour, no water was availible for sampling.
- 44	0000	CLAYEY SILT: Light olive brown (2.5Y 5/4), soft, wet, 60% silt, 40%	ML	22	08:43 A-1 @ 46 -		:
46		clay, medium plasiicity, no odor.			46.5		

1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING

Borehole ID: A-2

455 1111 6	Oakland, California 9461	2 Total Dept	h: 42	2 feet	bgs.		
PRO	JECT INFORMATION	DRIL	LING	INF	ORMAT	ION	
Project: Former l	3P Site # 11117 Soil and Water Investigation	Drilling Company: G	regg D	rilling	g and Test	ting, Ir	ıc.
·	10 Bancroft Ave, Oakland, CA	Driller: Paul Rogers					
Project Manager	Lynelle Onishi	Type of Drilling Rig:	Geopre	obe			
PG: Barbara Jakub			Drilling Method: 2" Direct Push				
Geologist: Andre		Sampling Method: C		ous C	оге		
Job Number: 38	· · · · · · · · · · · · · · · · · · ·	Date(s) Drilled: 9/27/0	05				
	· · · · · · · · · · · · · · · · · · ·	ORMATION	···				
Groundwater De		Boring Location: Adja	cent to	south	west enr	tance (on Bancroft Ave.
<u> </u>	d Auger Depth: 5.0 feet X Y	Boring Diameter: 2"					
Coolemates.	1	Boring Type: Explorat	ury	-		·	
Depth (ft bgs)	Lithologic Description		nscs	PID (ppm)	Sample ID	Recovery	Comments
E ⁰	ASPHALT		GP		T	T	
-2	CLAYEY SANDY GRAVEL: Very dark gray (10Y) 40% angular gravel, 30% fine - coarse angular salt. Hydrocarbon staining @1.5' @2 -2.5' Angular cobbles up to 10cm.	and, 20% clay, 10%	1 CL				Boring grouted with neat Porlland Cernent. Top 3" finished to grade
-4	SILTY CLAY: Very dark gray (10YR 3/1), stiff, dry 5% fine med sand, minor gravel, medium plasticil odor. SILTY SANDY CLAY: Dark yellowish brown (10Y	ty, slight hydrocarbon	GL.				with cement.
6 6 8 10	clay, 30% fine - medium angular sand, 20% silt, rup to 1cm diameter, no odor.	ninor ångular gravel		1,5	10:35 A-2 @ 5 - 5.5		Top 5' logged from hand auger / airknife cultings.
12	CLAYEY SILT: Brown (10YR 4/3), very stiff, dry, odor.	70% silt, 30% clay, no	ML	2	10:40 A-2 @10 - 10,5		
- 14	NO RECOVERY						
	CLAYEY GRAVEL: Olive brown (10YR 4/3), med subrounded gravel up to 30 mm diameter, 20% co 20% day, slight hydrocarbon odor.	oarse angular sand,	GM	2.5	10:45		
16	CLAYEY SILT: Dark greenish gray (Gley1 4/10Y) 30% clay, 5% fine sand, medium plasticity, slight	, soft, dry, 65% silt, hydrocarbon odor.	ML		A-2 @ 15 - 15.5		
18		***			10:46 A-2 @ 19.5 20		
20	CLAYEY GRAVEL: Very dark greenish gray (Gley 70% rounded gravel, 30% clay, minor fine sand, sodor.	y2 3/10G), dense, dry, strong hydrocarbon	GM	9	11:22 A-2 @ 21.3' grab water sample		▼

UF	2	LOG OF BORING	E	_(Bore	hole l	D: A	2
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments
24 		@27' 1" layer of red, well indurated sandstone		209	11:00 A-2 @ 25 - 25.5		
30 101 101 101 101 101 101 101 101 101 1		@30' gravel clasts become angular SAND: Dark greenish gray (Gley 1 3/10Y), loose, wet, 100% medium - coarse well rounded sand, minor clay, strong hydrocarbon odor.	SP	40	11:15 A-2 @ 30 - 30.5		፟፟፟፟፟፟፟
34 		NO RECOVERY: Refusal @ 38.5'		259	11:20 A-2 @33.5 - 34		Hydropunch driven from 40' to 42' in separate hole, 3 feel from A-2. Sample collected (A-2 @40-42'). Strong resistance
38 40					12;35 A-2 @ 40 - 42 grab water sample		Strong resistance encountered from 32' to 42'
E ₄₂							

URS

1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING

Borehole ID: A-3

Total Depth: 36 feet bgs.

	Total Dep	tn: 3	6 fee	t bgs.			
	JECT INFORMATION	DRII	LLING	INF	ORMA	TION	· · · · · · · · · · · · · · · · · · ·
Project: Former B	P Site # 11117 Soil and Water Investigation	Drilling Company: (Gregg I	Orillin	g and Tes	sting, I	ne.
	0 Bancroft Ave, Oakland, CA	Driller: Paul Rogers					
Project Manager:	Lynelle Onishi	Type of Drilling Rig	Geopr	obe			
PG: Barbara Jakub		Drilling Method: 2" I	Direct I	Push			- '
Geologist: Andrey		Sampling Method: (Continu	ious C	ore		
Job Number: 384	87353.0A034	Date(s) Drilled: 9/27	/05				
		FORMATION					
Groundwater Dep		Boring Location: Sou	th corn	er of p	property		
 -	Auger Depth: 5.0 feet	Boring Diameter: 2"					
Coordinates:)	Υ Y	Boring Type: Explora	itory				
Depth (ft bgs)	Lithologic Description	ı	nscs	PID (ppm)	Sample ID	Recovery	Comments
	ASPHALT CLAYEY SANDY GRAVEL: Very dark gray (10)	R 3/1), dense, dry.	GP	1			
4	40% angular gravel, 30% fine - coarse angular s silt, no odor. SILTY CLAY: Very dark gray (10YR 3/1), stilf, dr 5% fine med sand, minor gravel, medium plastic odor. SILTY SANDY CLAY: Dark yellowish brown (10' clay, 30% fine - medium angular sand, 20% silt, up to 10 mm diameter, no odor. NO RECOVERY	y, 80% clay, 15% siit, ly, slight hydrocarbon	CL	2	13:05 A-3 @ 5 - 5.5		Boring grouted with neat Portland Cement. Top 3" finished to grade with cement. Top 5' logged from hand auger / airknife cultings.
- 12 - 14 - 14	CLAYEY SILT: Olive gray (5Y 4/2)stiff, dry, 60%	sili, 35% clay, no odor.	ML	3	13:15		
16	CLAYEY GRAVEL: Dark greenish gray (Gley1 4/ dense, dry, 60% angular medium gravel, 25% fin slight hydrocarbon odor.	10GY), medium e sand, 15% clay,	GM		A-3 @ 14.5 - 15		
20	@17' color change (Gley1 3/10G) green staining. hydrocarbon odor. CLAYEY SILT: Dark greenish gray (Gley1 4/10G sill, 30% clay, 10% fine sand, minor gravel, medit hydrocarbon odor. CLAYEY GRAVEL: Dark greenish gray (Gley1 4/ dense, moist, 60% angular medium gravel, 30% ostrong hydrocarbon odor.	Y), soft, moist, 60% um plasticity, strong	ML GM	3	13:35 A-3 @ 19.24 grab water sample 13:20 A-3 @		*

UR	LOG OF BORING	E	Bore	hole l	D: A	. ~ 3
Depth (ft bgs) Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments
24 26 28 30 32 34	SAND: Olive brown (2.5Y 4/3), very loose, wet, 100% fine - medium sand, minor clay, strong hydrocarbon odor. CLAYEY GRAVEL: Dark greenish gray (Gley1 4/10GY), medium dense, dry, 60% angular medium gravel, 30% clay, 10% fine sand, strong hydrocarbon odor. NO RECOVERY: Sluffing. @27' 1" layer of red (5YR 5/6), well indurated sandstone.	SP	649	13:25 A-3 @ 23.5 - 24 13:50 A-3 @ 26 - 26.5 14:15 A-3 @ 34 - 36 grab water sample		Hydropnuch driven from 34' to 36' in separate hole, 3 feet from A-3. Sample collected (A-3@ 34-36').

LOG OF BORING

Borehole ID: A-4

		Oakland, California 946	12	Total Dept	th: 3	6 fee	t bgs.		
P	ROJEC	TINFORMATION		DRIL	LING	INF	ORMAT	ION	
		te #11117 Soil and Water Investigation	Drilling	g Company: G	regg I	Orillin	g and Tes	ting, I	nc.
		ancroft Ave, Oakland, CA	Driller:	Paul Rogers					_
Project Mana		elle Onishi	Туре с	f Drilling Rig:	Geopr	obe			
PG: Barbara Ja			Drilling	Method: 2" D	irect I	ush			
Geologist: A			Sampl	ing Method: C	ontinu	ous C	ore		
Job Number:	3848735		<u> </u>) Drilled: 9/26/	05				
		BORING IN							
Groundwater				Location: Sout	h west	side	of propert	у.	
Coordinates:		ger Depth: 5.0 feet Y	-	Diameter: 2"					
Coordinates.	^		Вогіпд	Type: Explorat	ory				
Depth (ft bgs)	Symbol	Lithologic Description	1		nscs	PID (ppm)	Sample ID	Recovery	Comments
F 0	AS	SPHALT				<u> </u>	<u> </u>	l	
2 4	91 91 91 91 91 91 91 91	LAYEY SANDY GRAVEL: Very dark gray (10Y 0% angular gravel, 30% fine - coarse angular s lt, no odor. ILTY CLAY: Very dark gray (10YR 3/1), stiff, dr % fine med sand, minor gravel, medium plastic dor. ILTY SANDY CLAY: Dark yellowish brown (10X ay, 30% fine - medium angular sand, 20% silt, bayes and sand, 20% silt, bayes and sand, 20% silt, bayes and sand, 20% silt, bayes and sand, 20% silt, bayes and sand sand sand sand sand sand sand	y, 80% cla ity, slight I (R 4/4), sti no odor, R	y, 15% slit, iydrocarbon iff, dry, 50% oots visible.	GP	163	42.55		Boring grouted with neat Portland Cernent. Top 3" finished to grade with cement.
4.16 8 10	-:- an	LAYEY SANDY GRAVEL: Dark yellowish brow y, 60% angular gravel up to 2 cm diameter, 30 igular sand, 10% clay, no odor. O RECOVERY	n (10YR 4 % medlum	(4), dense, - coarse	GM	16.3	12:55 A-4 @ 5 - 5.5		Top 5' logged from hand auger / airknife cuttings.
12 	me	LAYEY SAND: Olive gray (5Y 4/2), medium der edium angular sand, 15% clay, no odor.			SM				
<u>-</u> 16	:~: me	RAVELLY SAND: Olive gray (5Y 4/2), medium edium angular sand, 20% angular gravel up to ay, no odor.	đense, dry 2 cm diam	, 70% fine - eter, 10%		2.0	13:15 A-4 @		
18	@: de	LAYEY GRAVEL: Dark greenish gray (Gley1 4/ inse, dry, 60% angular medium gravef, 25% fin ght hydrocarbon odor. 17' color change (Gley1 3/5G) green staining. S	e sand, 15	edium % clay,	GM		15 - 15.5		
 20	riyo	drocarbon odor.		ļ		16.7	13:25 A-4 @ 19.5 - 20		
22 ·	Cla	AYEY SILT: Yellowish brown (10YR 5/4), soft, ay, 10% fine sand, minor gravel, medium plastic drocarbon odor.	dry, 60% : city, strong	silt, 30%	ML		13:32 A-4 @ 21.6 grab		Y

RS	LOG OF BORING	E	3ore	hole i	D: A	4
Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments
28	2.5Y 4/3), loose, wet, 100% medium sand, minor 3 cm diameter, strong hydrocarbon odor. recovery due to sluffing from 28' to 35'	SP.		water sample 13:35 A-4 @ 23.5 - 24 13:55 A-4 @ 31.5 - 32 14:50 A-4 @ 34 - 36 hydro -punch		Hydropunch driven from 34' to 38' in separate hole, 3 feet from A-4. Sample collected (A-4@34-36').

1333 Broadway, Suite 800

LOG OF BORING

Borehole ID: A-5

	0-11		Metiole ID	- 23-3			
City i branch a second days	Oakland, California 946	12 To	tal Depth:	40 fee	t bgs.		
PROJECT IN	FORMATION		DRILLI	NG INF	ORMAT	TION	
Project: Former BP Site #11	Drilling Con	npany: Gre	g Drillir	ng and Tes	ting, L	nc.	
Site Location: 7210 Bancro	ft Ave, Oakland, CA	Driller: Paul	Rogers				
Project Manager: Lynelle (Onishi	Type of Dril	ling Rig: Ge	oprobe			
PG: Barbara Jakub		Drilling Met	hod: 2" Dire	ct Push			
Geologist: Andrew Fowler		Sampling M	ethod: Con	inuous (Core		
Job Number: 38487353.0A	034	Date(s) Drill	ed: 9/26/05				
		FORMATION					
Groundwater Depth: 21.6		Boring Loca	tion: East sid	e of prop	erty, near	73rd /	Ave entrance.
Air Knife or Hand Auger D	·	Boring Diameter: 2"					
Coordinates: X	Υ	Boring Type	Explorator	<u></u>			
Depth (ft bgs)	Lithologic Description	1		USCS PID (ppm)	Sample ID	Recovery	Comments
Sand, n SILTY S% fine CLAYE - coarse	ALT ry dark greenish gray (Gley1 3/5GY), loos to odor. CLAY: Very dark gray (10YR 3/1), stiff, dr. med sand, minor gravel, medium plastici Y SAND: Dark yellowish brown (10YR 4/4) e angular sand, 30% clay, 10% sill, no od CLAY: Brown (10YR 4/3), medium stiff, on angular sand, minor angular gravel, medium stiff, on angular sand, minor angular gravel, medium stiff, on angular sand, minor angular gravel, medium	y, 80% clay, 15% ty. 4), loose, dry, 60 or.	6 slit,	SP 1.6	10:25 A-5@ 5 - 5.5		Boring grouted with neat Portland Cement. Top 3" finished to grade with cement. Top 5' logged from hand auger / airknife cuttings.
	ades to clayey sand.			5M 1.9	10:35		

- 16

- 18

20

@ 16' color change (Gley1 3/5G). Strong hydrocarbon odor.

 ∇

12.3 10:45 A-5 @ 15 -15.5

A-5 @ 19.5 grab water

sample

10:47 A-5 @ 19.5 -20

11:00 A-5 @ 22 -

3.1

6.2

	LOG OF BORING Borehole ID: A-5				<u>-</u> 5		
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments
- 24 - 26 - 28		rounded coarse sand, minor gravel. @ 25' gravel increase to 30%		3.6	22.5 11:05 A-5 @ 25 - 25.5		
30 32 34	ススプススス	CLAYEY SANDY GRAVEL: Dark grayish brown (2.5Y 4/2), medium dense, dry, 60% angular gravel upto 5cm diameter, 20% coarse angular sand, 15% clay, 5% slit, strong hydrocarbon odor, green staining.	GM	12.4 8.5	11:10 A-5 @ 30 - 30.5.		Hydropunch driven from 28' to 30' In separate hole, 3 feet from A-5. No water in hydropunch hole after 1 hour.
- 36 - 38 - 40		NO RECOVERY: Sluffing.			A-5 @ 35 - 35.5		

1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING

Borehole ID: A-7

Total Depth: 36.5 feet bgs.

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PROJECT INFORMATION	DRILLING INFORMATION				
Project: Former BP Station # 11117 Soil and Water Investigation Drilling Company: Gregg Drilling and Testing, Inc.					
Site Location: 7210 Bancroft Ave, Oakland, CA	Driller: Paul Rogers				
Project Manager: Lyncllc Onishi Type of Drilling Rig: Geoprobe					
PG: Barbara Jakub Drilling Method: 4.5" Simco Augers					
Geologist: Andrew Fowler Sampling Method: 18" Splitspoon, 5' Sampling Intervals					
Job Number: 38487353.0A034	Date(s) Drilled: 11/3/05				
BORING IN	FORMATION				
Groundwater Depth: not encountered	Boring Location: Southeast Corner of Parking Lot for DD's Discounts				
Air Knife or Hand Auger Depth: 5.0 feet Boring Diameter: 4.5"					
Coordinates: X Y	Boring Type: Exploratory				

Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample ID	Recovery	Comments
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ASPHALT BLANK: Boring logs for soil boring A-7 were stolen, lithologies were logged on 11/16/05 from samples submitted to Sequoia Analytical. Boring airknifed to 5 feet bgs.					Boring grouted with neat Portland Cement. Top 3" finished to grade with concrete.
6 8 10 10		CLAYEY SILT: Dark yellowish brown (10YR 4/4), medium stiff, dry, 70% silt, 30% clay, minor gravel up to 8 mm, medium plastic.	ML		12:55 A-7 @ 6-6.5		
14	2000000	SANDY GRAVEL: Brown (10YR 4/3), loose, damp, 70% sub-rounded gravel up to 20 mm, 25% medium sand, 5% silt, no plasticity.	GM		13:00 A-7 @ 11-11,5'		
16 18 18 120	HORIO DE MONTE PERMUNDIN. ROBERTO DE RESPONDE PORTE DE LA COMPANIO.	SILTY SAND: Brown (10YR 5/3), medium dense, moist, 65% medium to coarse angular sand, 25% clay, 10% sub-rounded gravel up to 10 mm.	SM		13:05 A-7 @ 16-16.5'		
22	DENNISH SERVICES	@ 21 feet bgs, color change and gravel disappears; Dark yellowish brown (10YR 4/4), moist, 75% medium to coarse angular sand, 25% silt, slight odor.			13:10 A-7 @ 21-21.5		

UR	LOG OF BORING Borehole ID: A						4- 7		
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments		
24 24 26 28 28 30 32 34 34 34		CLAYEY GRAVEL: Brown (10YR 4/3), loose, moist, 70% sub-rounded to sub-angular gravel up to 10 mm, 25% clay, 5% silt, slight hydrocarbon odor. NO RECOVERY	GC		13:20 A-7@ 25.5-26		No water encountered in boring A-7 after 1 hour. Lydropunch driven from 28' to 30' in separate hole, 3 feet from A-7. No water in hydropunch hole after 1 hour.		
	1	CLAYEY SILT: Brown (10YR 5/3), medium stiff, wet, 80% silt, 20% clay, black specks throughout.	ML J		13:45 A-7 @ 36-36.5'		Boring terminated a		

URS

1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING

Borehole ID: A-8

Total Depth: 36.5 feet bgs.

PROJECT INFORMATION	DRILLING INFORMATION			
Project: Former BP Station #11117 Soil and Water Investigation	Drilling Company: Gregg Drilling and Testing, Inc.			
Site Location: 7210 Bancroft Ave, Oakland, CA	Driller: Paul Rogers			
Project Manager: Lynelle Onishi	Type of Drilling Rig: Geoprobe			
PG: Barbara Jakub	Drilling Method: 4.5" Simco Augers			
Geologist: Andrew Fowler	Sampling Method: 18" Splitspoon, 5' Sampling Intervals			
Job Number: 38487353.0A034	Driller: Paul Rogers Type of Drilling Rig: Geoprobe Drilling Method: 4.5" Simco Augers			
BORING II	NFORMATION			
Groundwater Depth: 24.6 feet bgs.	Boring Location: Adjacent to entrance into DD's Discounts			
Air Knife or Hand Auger Depth: 5.0 feet	Boring Diameter: 4.5"			
Coordinates: X Y	Boring Type: Exploratory			

		Dorning Typo: Expression					
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample ID	Recovery	Comments
2 4 6		ASPHALT BLANK: Boring logs for soliboring A-8 were stolen, lithologies were logged on 11/16/05 from samples submitted to Sequoia Analytical. Boring Airknifed to 5 feet bgs. SILTY SAND: Yellowish brown (10YR 5/4), dense, dry, 80% fine sand, 20% slit, no plasticity.	SM		09:00 A-8 @		Boring grouted with neat Portland Cement. Top 3" finished to grade with concrete.
10 110 112 114 116	AN THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT	1" layer, reddish brown (5YR 4/3), very hard, well indurated sandstone.			A-8 @ 6-6.5' 09:05 A-8 @ 11-11.5'		
16 		SANDY GRAVEL: Yellowish brown (10YR 5/4), loose, damp, 65% sub-angular gravel up to 30 mm, 3% medium to coarse sand, 5% silt, no plasticity, no odor.	GM		09:10 A-8 @ 15.5-16'		
= 22 = 22 = = = = = = = = = = = = = = =		CLAYEY GRAVEL: Yellowish brown (10YR 5/4), medium dense, damp, 60% sub-rounded to sub-angular gravel up to 20 mm, 20% clay, 10% coarse angular sand, 10% slit.	GC		09:15 A-8 @ 21-21.5'		

UR		LOG OF BORING	Borehole ID: A-8				
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Rесоvегу	Comments
24 26 28 30 30 34 4 4 34	00000000000000	SANDY GRAVEL: Brown (10YR 5/3), loose, wet, 55% sub-angular gravel up to 35 mm, 35% medium sand and rounded coarse sand, 10% silt. @ 30 feet bgs, gravel increases; loose, wet, 75% sub-rounded gravel up to 10 mm, 15% coarse sand, 55% silt.	GM		09:36 A-8 @ 24.6' (water) 09:40 A-8 @ 25-25.5' 09:45 A-8 @ 30-30.5'		Hydropunch driven from 28' to 30' in separate hole, 3 feet from A-8. No water in hydropunch hole after 1 hour. Boring terminated at 36.5'.
= 36		CLAYEY SILT: Brown (10YR 5/3), medium stiff, wet, 80% silt, 20% clay. Black specs throughout, light olive brown mottling.	ML				20,0

URS

1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING

Borehole ID: A-9

Total Depth: 36.5 feet bgs.

	- Oakiand, Cambrilla 946	12	Total Dept	h: 30	i.5 fe	et bgs.		
PROJ	ECT INFORMATION		DRIL	LING	INF	ORMAT	ION	
Project: Former BF	Site #11117 Soil and Water Investigation	Drilling Company: Gregg Drilling and Testing, Inc.						
Site Location: 7210	Bancroft Ave, Oakland, CA	Driller: Paul Rogers						
Project Manager:	Lynelle Onishi	Туре о	f Drilling Rig: (Зеорго	be			
PG: Barbara Jakub		Drilling	Method: 4.5"	Simco	Auge	ırs		
Geologist: Andrew	Fowler	Sampli	ng Method: 18	" Split	spoor	ı, 5' Samp	ling lı	ntervals
Job Number: 3848	7353.0A034	Date(s	Drilled: 11/3/0)5				
	BORING IN	FORMA	TION				"	
Groundwater Dept	h: 24.2 feet bgs.	Boring	Location: Offsi	te: No	rth co	mer of sit	e in ac	ljacent parking lot
Air Knife or Hand	Auger Depth: 5.0 feet	Boring	Diameter: 4.5"					
Coordinates: X	Y	Boring	Type: Explorate	ory				
Depth (ft bgs)	Lithologic Description	n		nscs	PID (ppm)	Sample ID	Recovery	Comments
2	ASPHALT BLANK: Boring logs for soilboring A-9 were stole logged on 11/16/05 from samples submitted to 5 Boring Airknifed to 5 feet bgs.	nples submitted to Sequoia Analytical.						Boring grouted with neat Portland Cement. Top 3" finished to grade with concrete.
2 4 	SILTY SAND: Yellowish brown (10YR 5/4), med medium to coarse sand, 20% sllt, low plasticity.	ium stiff, da	amp, 80%	SM		11:15 A-9 @ 6-6.5		
12 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	GRAVELLY SAND: Yellowish brown (10YR 5/4), sorted medium sand, 30% gravel up to 20 mm, 1 no odor.	, loose, dar 10% silt, no	np, 60% well plasticity,	SP		11:20 A-9 @ 11-11.5'		
- 16 - 18 - 20	CLAYEY GRAVEL: Yellowish brown (10YR 5/4), 60% sub-rounded to sub-angular gravel up to 30 coarse angular sand, 10% silt, no odor.	, medium d) mm, 20%	ense, damp, clay, 10%	GC		11:30 A-9 @ 16-16.5'		
22	SANDY GRAVEL: Brown (10YR 5/3), loose, dam angular gravel up to 35 mm, 35% medium sand a sand, 10% silt, no plasticity, no oder.	np, 55% su and rounde	b-rounded d coarse	GM		11:31 A-9 @ 21-21.5'		

UR		LOG OF BORING	-√ E	Bore	\-9		
Depth (ft bgs)	Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments
24 26		SILTY SAND: Yellowish brown (10YR 5/4), loose, wet, 65% medium to coarse sub-rounded to sub-angular sand, 30% silt, 5% clay, no plasticity, no odor.	SM		11:35 A-9 @ 24.2' (waler)		▼ ▽
եւևուև հուլևու 30					11:40 A-9 @ 25-25.5'		Hydropunch driven from 28' to 30' in
32 		CLAY: Dark grayish brown (10YR 4/2), medium stiff, dry, 90% clay, 10% silt, medium to high plasticity. CLAYEY GRAVEL: Brown (7.5YR 5/2), loose to medium dense, dry, 80% sub angular gravel up to 10 mm, 15% clay, 5% silt.	GC		11:45 A-9 @ 31-31.5'		separate hole, 3 feet from A-9. No water in hydropunch hole after 1 hour.
36	A	CLAYEY SILT: Brown (10YR 5/3), medium stiff, wet, 80% silt, 20% clay, no odor. Black specs throughout.	ML		11:50 A-9 @ 36-36.5'		Boring terminated at 36.5'.

LOG OF BORING

Borehole ID: A-10

		/ W		Oakland,	California 946	12	Total Dept	th: 39	9 feet	bgs.		
				FORMATION			DRIL	ILLING INFORMATION				
	Project: Former BP Site #11117 Soil and Water Investigation						Drilling Company: Gregg Drilling and Testing, Inc.					
	Site Location: 7210 Bancroft Ave, Oakland, CA					Driller: Paul Rogers ·						
	Project Mana	ger:)	Lynelle (Onishi		Type	of Drilling Rig:	Geopre	obe			·
	PG: Barbara Ja	kub				Drilling	g Method: 4.5"	Simco	Auge	rs		
ļ	Geologist: Ba			······································		Sampl	ing Method: 18	3" Spli	t Spoc	n		
	Job Number:	3848	7353.0A	034		Date(s) Drilled: 11/7/	05				
					BORING IN	FORMA	TION					
	Groundwater					Boring	Location: In ce	nter of	plant	er, across	73rd 2	Ave. from Site.
Ì	Air Knife or H			<u> </u>		Boring	Diameter: 4.5"					-
	Coordinates:	Х		Y		Boring	Type: Explorat	ory				
	Depth (ft bgs)	Symbol			Lithologic Description	1		SOSO	PID (ppm)	Sample ID	Recovery	Comments
	0 2 4 6 8 10		FILL: A	Y SILT: Dark bro	with clasts up to 120 mm	. 15% clay	, 5% sand.	FILL				Boring grouted with neat Portland Cement. Top 3" finished to grade with cement.
	ահասկասհասև 10		fine sar Trace b	nd, 1% angular gr black specs.	, medium stiff, damp, 85 avel up to 80 mm diame	ter, low pla	esticity.			09:48 A-10 @ 5.5-6'		Top 5' logged from hand auger / airknife cuttings.
	— 12 — 14				5YR 4/3), loose, damp, 5 non plastic. Fines downy			SM		10:02 A-10 @ 10.5-11'		
	16		SILT: Ye	ellowish brown (1 id, low plasticity. I	0YR 5/4), stiff, damp, 85 Manganese staining.	% silt, 109	% clay, 5%	ML		10:05 A-10 @ 15.5-16'		

20

Silt content increases, 95% Silt, 5% clay, Medium stiff.

10:10 A-10 @ 20.5-21'

URS	LOG OF BORING	\ E	Bore	-10		
Depth (ft bgs) Symbol	Lithologic Description	nscs	PID (ppm)	Sample I.D.	Recovery	Comments
26 	SANDY SILT: Yellowish brown (10YR 5/4), soft, moist, 80% silt, 17% fire sand, 3% clay. Trace black specs and white granules (possibly feldspar) up to 30 mm in diameter. SILT: Yellowish brown (10YR 5/4), soft, wet to saturated, 75% silt, 10% clay, 10% gravel, 5% sand. Angular chert gravel at base up to 30 mm in diameter. SILTY GRAVEL: Yellowish brown (10YR 5/4), dense, wet, 70% angular osub-angular gravel up to 30 mm in diameter with chert and sandstone clasts, 17% silt, 10% sand, 3% clay.	GM		10:19 A-10 @ 25:5-26' 10:20 A-10 @ 25' (water) 10:33 A-10 @ 30.5-31' 10:42 A-10 @ 35.5-36' 11:07 A-10 @ 39' (water)		Hydropunch driven from 39' to 41' in separate hole, 3 feet from A-10. Sample taken (A-10@39'). Total depth 39 feet bgs.

Borehole ID: A-10

APPENDIX B.

HISTORIC SOIL AND WATER ANALYTICAL DATA AND SAMPLE LOCATIONS

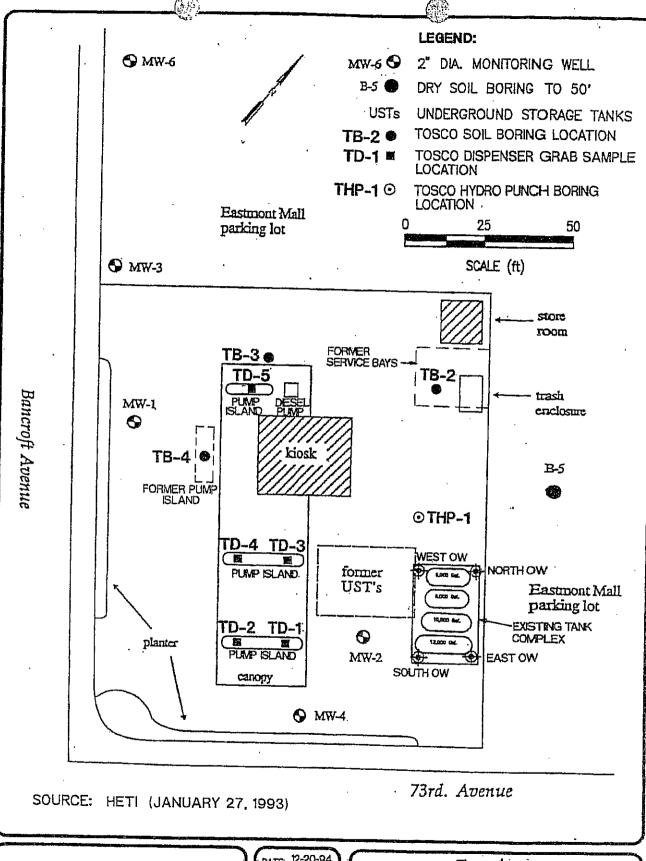




Figure 1.
TOSCO #11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA
SITE PLAN

SOIL SAMPLES SUMMARY OF ANALYTICAL RESULTS

BP Oil Facility No. 11117 7210 Bancroft Avenue Oakland, California

Sample	Date.	TPHg	B	T	E	X
Description		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
MW-1 @ 5'	12/27/91	ND	ND	ND	ND	ND
MW-1 @ 15'	12/27/91	ND	ND	ND	ND	ND
MW-1 @ 25'	12/27/91	ND	ND	ND	ND	ND
MW-2 @ 5'	12/27/91	ND	ND	ND	ND	ND
MW-2 @ 15'	12/27/91	ND	ND	ND	ND	ND
MW-2 @ 25'	12/27/91	ND	ND	ND	ND	ND
MW-4 @ 15'	7/22/92	240	ND	6.6	5.7	27
MW-4 @ 20'	7/22/92	6,000	34	450	190	780
MW-4 @ 25'	7/22/92	1,100	1.6	36	27	140
B-5-@ 30'	7/22/92	ND	ND	ND	ND	ND
MW-6 @ 30'	7/23/92	ND	ND	ND	ND ·	ND

TPHg = Total petroleum hydrocarbons as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

ND = Not detected above the laboratory method detection limit

TPHg and BTEX analyses EPA 8015/8020 (DHS modified).

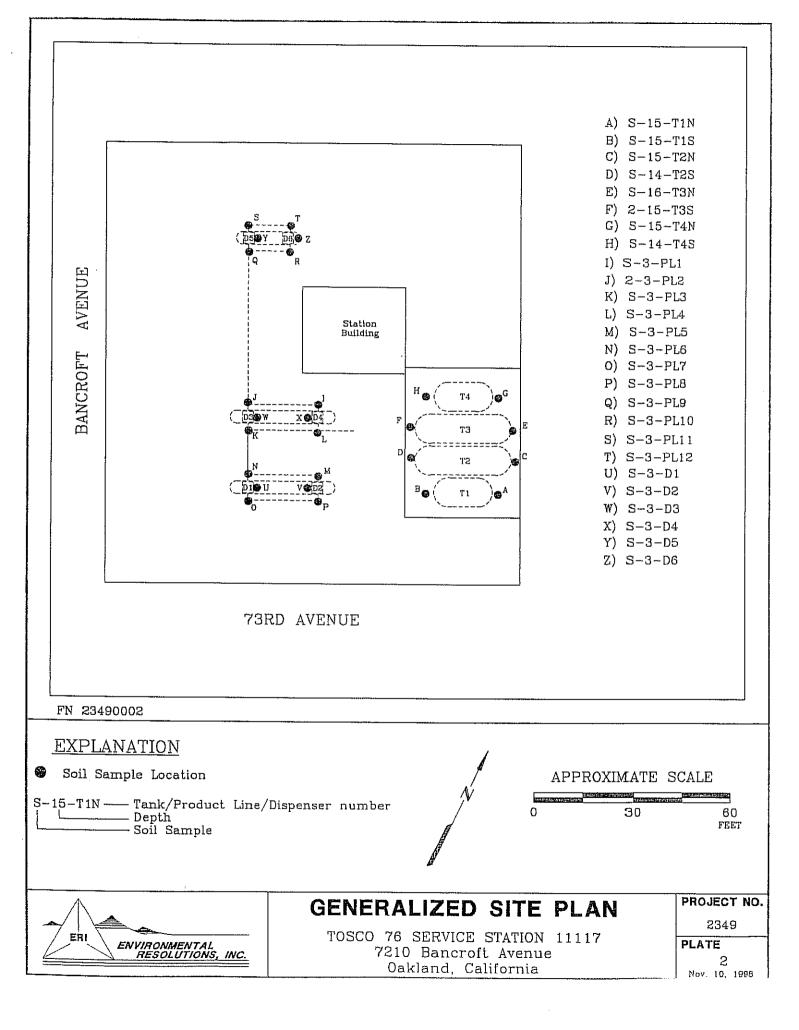
Site Number 11117 7210 Bancroft Avenue, Oakland, California

Soil Sample Results of Analyses (ppm)

			California DHS LUFT Method TPH-G		DHS LUFT ccarbon Scan		BTI EPA Method		
Sample Number	Depth (feet)	Date Collected	ТРН-G	ТРН-D	ТРН-О	Benzene	Toluene	Ethylbenzene	Total Xylenes
TD-1 ** TD-2 TD-3 TD-4 TD-5 THP-1-22' *** TB2-S-13.5-14' TB3-S-11' TB4-S-6.5-7'	n/a n/a n/a n/a n/a 22 13.5-14 11 6.5-7	09/08/94 09/08/94 09/08/94 09/08/94 09/08/94 09/14/94 09/14/94	4.4 nd 16 nd nd nd nd nd	2,100 160 5,800 110 2,400 nd nd nd nd	85 50 880 36 340 nd nd nd	nd* nd nd* nd nd nd nd nd nd nd	0.077 nd 0.088 nd nd nd nd nd nd	0.042 nd 0.053 nd nd nd nd nd	0.26 nd 0.51 nd 0.008 nd nd nd nd

Groundwater Sample Results of Analyses (ppb)

	Depth to		California DHS LUFT Method TPH-G	California l Method Hydi	DHS LUFT rocarbon Scan	l			EX d 5030/8020	
Sample Number	Water (feet)	Date Sampled	трн-с	TPH-D	ТРН-О		Benzene	Toluene	Ethylbenzene	Total Xylenes
TB2-W-36' TB3-W-36'	36 36	09/14/94 09/14/94	nd nd	nd* nd*	nd* nd*		nd 0.7	nd 0,6	nd nd	nd nd
NOTE: TPH-G = TPH-D = TPH-O = nd = n/a = -	Total petroleum hye Total petroleum hye Not detected at or a Not applicable.	frocarbons as gasoline frocarbons as diesel. frocarbons as oil. shove method reporting			# 4		Tosco well. Tosco boring. Tosco dispenser soil : Tosco HydroPunch. Soil gas probe. Raised method report TD-1 through TD-5 : HP-1 is referred to a:	ing limits (see labor	atory report in Attachm -1 through PD-5 on lai	ient D). b reports.



RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES
Tosco 76 Service Station 11117
7210 Bancroft Avenue
Oakland, California
(Page 1 of 2)

Sample #	Plate 2	Date	Depth	TEPHd	TPPHg	MTBE	В	T	E	X	Total Lea
	Callout	Sampled	(li pgs)	<	***************************************			.ppm	***********		***************
1.0	H										,
erground Stora				670	100						
5-15-TIN	A	8/14/98	15	630	480	1.6	0.40	0.46	2.3	1.2	NA
S-15-T1S	В	8/14/98	15	800	5,300	ND	ND	100	63	530	NA
S-15-T2N	C	8/14/98	1.5	NA NA	440	1.3	0.79	6.2	4.6	35	ND
S-14-T2S	D	8/14/95	14	NΛ	3.7	0.055	ND	0.019	0.060	Ó. 5 2	NA
S-16-T3N	E F	8/14/98 8/14/98	16 15	NA NA	810	5.3	0.95	4.2	16	99	NA
S-15-T3S	G	8/14/98	15	NA NA	ND ND	0.065	ND	ND	ND	0.013	NA
S-15-T4N	н	8/14/98	14	NA NA	ND	0.26	ND	ОИ	ND	ND	NA
S-14-T45	n	0/14/20		7//	NU	0.028	ND	0.0090	ND	0.016	NA
uct Lines and 1	Dispensers										
S-3-PL1	1	8/14/98	3	NA	240	15	ND	6.0	3.5	25	12
S-3-PL2	1	8/14/96	3	14	3.3	0.10	ND	0.026	0.018	0.18	NA
S-3-PL3	К	8/14/98	3	4.8	ND	0.86	ND	ND	ИD	ND	NA
5-3-PL4	L	8/14/98	3	21	6.8	12	0.063	0.0081	0.17	0.46	NA ·
S-3-PL5	M	8/14/98	3	NA	ND	ND	ND	ND	ND	ND	NA
S-3-PL6	N	8/14/98	3	NΛ	4.8	ND	ND	0.11	0.0054	0.038	NΛ
S-3-PL7	0	8/14/98	3	NA	1.8	0.075	ND	0.084	0.019	0.036	NA.
S-3-PL8	ř	8/14/98	3	NA	ND	ND	ND	ND			
S-3-PL9	Q	8/14/98	3	18	ND	ND	ND		ND	ND	ΝĄ
S-3-PL10	. R	8/14/98	3	NA NA	ND	ND		ND	ND	ND	_ NA
		8/14/98	3				ND	ND	מא	ND	NA
S-3-PL11	S ~-			190	1.7	ND	ND	ND	0.0068	0.012	NA
S-3-PL12	T	8/14/98	3	ИD	1.4	0.048	0.0089	0.025	0.0061	0.035	NΛ
S-3-D1 ·	U	8/14/98	3	ΛN	72	. 10	ND	' ND	ND	0.63	NΛ
S-3-D2	v	8/14/98	3	NA	ND	0.054	ИD	ИD	ND	ŃD	NA
S-3-D3	W	8/14/98	3	NA	ИD	1.7	ND	0.010	ND	0.010	NA
S-3-D4	χ	8/14/98	3	N۸	7200	72/ND*	22	170	87	590	40
S-3-D5	Υ.	8/14/98	3	NA	ND	ND	ND	ND	ND	ND	NA
S-3-D6	z	8/14/98	3	ND	ND	0.053	ND	ND	ND	ND	NΛ

RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES

Tosco 76 Service Station 11117 7210 Bancroft Avenue Oakland, California (Page 2 of 2)

•••	- n 111	
4,	4114	ī
	4, 411	

•	•	•					3. 4: -4:1.				
Sample #	Plate 2	Date	Depth	ТЕРНИ	ТРРНВ	MTBE	В	Ť	E	Х	Total Lead
	Callout	Sampled	(ft bgs)	<	······	***************	*************	.ppm	**********		
oil-Stockpile									*		
SP-1-(1-4)	NA	8/14/98	NA	9.3	16	NA	0.011	0.016	0.039	0.23	26
SP-2-(1-4)	NA	8/14/98	NA	17	19	NA	0.022	ИD	0.034	0.11	30
SP-3-(1-4)	NA	8/14/98	NA	4.6	2.0	NA	NĐ	ND	ND	0.011	21
SP-4-(1-4)	NA	8/14/98	NA	5.3	2.4	NA	ND	ND	ND	0.014	23
Notes:	 				<u>-</u>			<u>, , , , , , , , , , , , , , , , , , , </u>	·		
S-15-TIN	=	Soil Sample - de	pth - UST mumb	er/end.							
S-3-PLI	=	Suil Sample - de	pth - product line	sample number.							
S-3-D1	=	Soil Sample - de	pth - dispenser n	umber.							
SP-1-(1-4)	=	Stockpiled soil s:	ample – stockpile	number - soil sl	ceve number.	•					
TEPHd		Total extractable	petroleum hydro	carbons as diese	analyzed using	EPA method 801	5 (modified).				
TPPHg	=	Total purgeable j	petroleum hydrod	carbons as gasoli.	ne analyzed using	EPA method 80	015 (modified)				
MTBE	123	Methyl tertiary h									
BTEX	=	Benzene, toluene	, ethyl benzene,	and total xylenes	analyzed using !	EPA method 802	0.				
Total Lead	<u> </u>	Total threshold li	imit concentratio	n of lead analyze	dusing EPA net	had 6010.					
ft bgs	=	Feet below groun	nd surface.								-
ppm	=	Parts per million									
, NA	=	Not analyzed/net	applicable.								
ND	#3	Not detected at o	r above laborato	ry method detecti	on limits.						
*	. =	MTBE confirmed	d veino CDA mar	- L-J 9160							

SOIL SAMPLE ANALYTICAL RESULTS

BP STATION No. 11117 7210 BANCROFT AVENUE, OAKLAND, CALIFORNIA

Sample No.	Date ·	TPHg (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)
MW-7-25' (1)	10/6/94	ND<1.0	ŅD<0.005	ND<0.005	ND<0.005	ND<0.005
MW-8-25'	10/6/94	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-9-25'	10/6/94	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

Notes:

Sample No.: Soil boring designation and sample collection depth.

Date: Sample collection date.

TPHg: Total petroleum hydrocarbons as gasoline by EPA Method 8015 (modified).

BTEX: Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8020 (modified).

ppm: Parts per million (mg/kg).

ND: Not detected in concentrations exceeding the indicated laboratory method detection limit (MDL).

(1): Rock and gravel encountered at 25 ft bgs. Sample collected at 26.5 bgs.

Summary of Soil Analytical Data

Sample ID -						
Depth .	TPPH-g.	Benzene	Toluene	Ethylbenzene	Xylenes	MtBE
MW-10 - 6'	<0.1 mg/kg	<1 µg/kg	<2 μg/kg	<2 µg/kg	<2 μg/kg	<100 µg/kg
MW-10 - 11'	<0.1 mg/kg	<1 µg/kg	<2 µg/kg	<2 μg/kg	<2 μg/kg	- <100 µg/kg
MW-10 - 30'	<0.1 mg/kg	<1 µg/kg	<2 µg/kg	<2 μg/kg	<2 μg/kg	<100 µg/kg
MW-10 - 35'	<0.1 mg/kg	<1 µg/kg	<2 μg/kg	<2 μg/kg	<2 μg/kg	<100 μg/kg

mg/kg = milligrams per kilogram μg/kg = micrograms per kilogram

CAMBRIA

Soil Analytical Data - BP Oil Site No. 11117, 7210 Bancroft Avenue, Oakland, California

					Ethyl-			Total	
Sample ID	Date	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	Lead	TOC
(Depth - ft bgs)	Sampled	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(% w/w)
El	A Method:	8015m	8260	8260	8260	8260	8260	б010	Walkley-Black
EX-1-15.5	11/30/99	<1.0	<0.005	<0.005	<0.005	<0.005	0.011	-	-
EX-1-21	11/30/99	<1.0	< 0.005	< 0.005	<0.005	<0.005	<0.005	-	••
EX-1-25.5	11/30/99	-	-	•	-	-	-	_	<0.318
EX-1-36	11/30/99		•	-	-	-	.–	.	<0.318
EX-2-11	11/30/99 ·	<1.0	<0.005	<0.005	<0.005	<0.005	0.012	_	·
EX-2-15.5	11/30/99	_	-	_	-	-	-	-	<0.318
EX-2-20.5	11/30/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	•	-
COMP	11/30/99	1.0	0.016	0.096	0.042	0.236	0.17	5.85	- ,

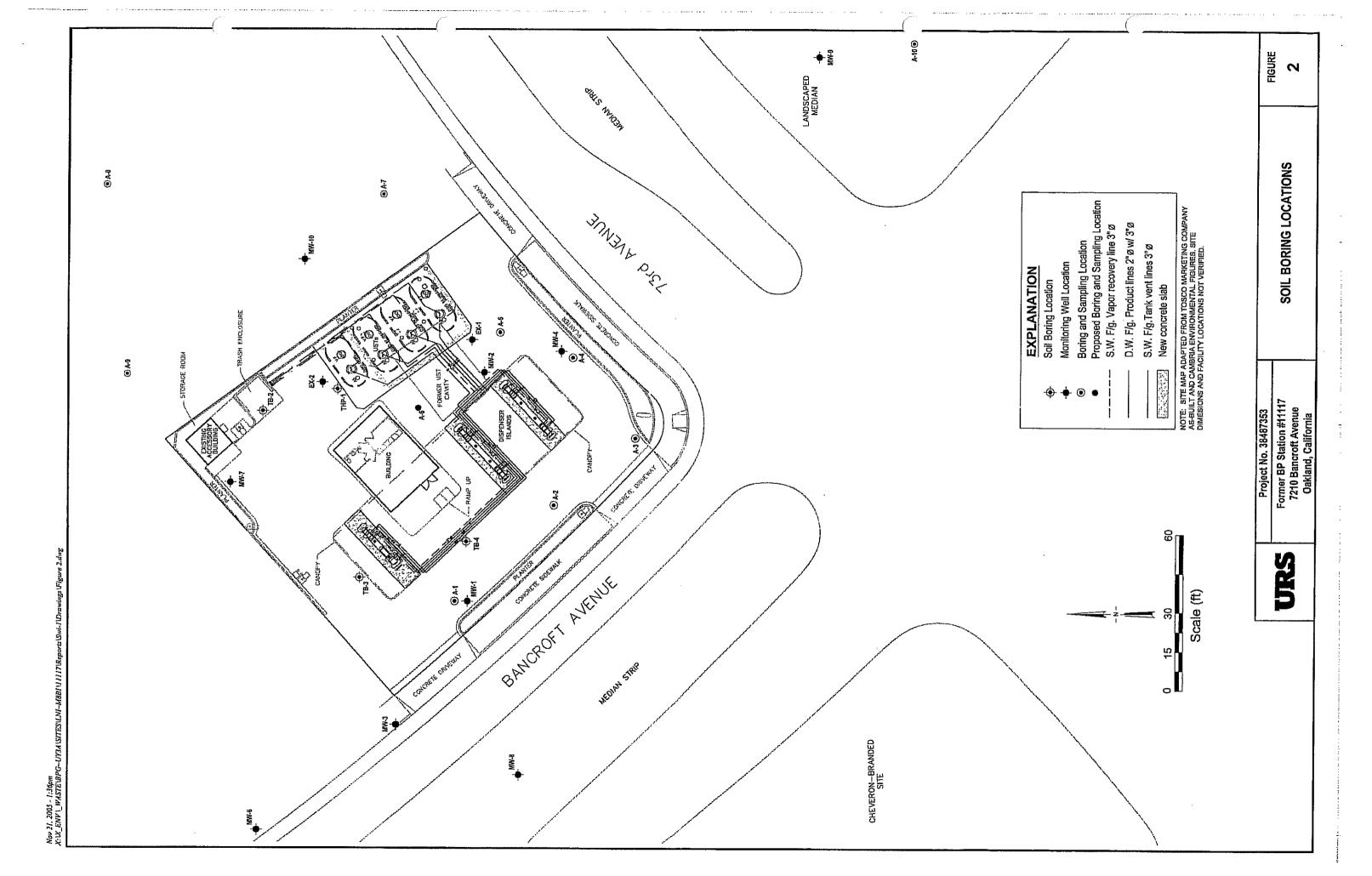
Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

TOC = Total organic carbon

mg/kg = Milligrams per kilogram



Former BP #11117

7210 Bancroft Ave., Oakland, CA

Soil Sample ID	Sample Depth (feet bgs)	Date Sampled	GRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	TBA (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
A-1 (6-6.5')	6.0	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-1 (11-11.5')	11.0	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA NA
A-1 (16-16.5')	16.0	09/27/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA -
A-1 (21-21.5')	21.0	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA
A-1 (25.5-26')	25.5	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA
A-1 (30.5-31')	30.5	09/27/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-1 (35.5-36')	35.5	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA
A-1 (39-39.5')	39.0	09/27/05	76	ND<0.10	ND<0.10	0.11	0.11	ND<10	ND<0.050	NA
A-1 (46-46.5')	46.0	09/27/05	ND<2.5	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<5.0	0.84	NA
A-2 (5-5.5')	5.0	09/27/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-2 (10-10.5')	10.0	09/27/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-2 (15-15.5')	15.0	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA
A-2 (19.5-20')	19.5	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA
A-2 (25-25.5')	25.0	09/27/05	34	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<10	ND<0.050	NA
A-2 (30-30.5')	30.0	09/27/05	120	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<25	ND<0.12	NA
A-2 (33.5-34')	33.5	09/27/05	17	ND<0.050	ND<0.050	0.25	0.99	ND<5.0	ND<0.025	NA
A-3 (5-5.5')	5.0	09/27/05	0.27	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	0.0050	NA
A-3 (14.5-15')	14.5	09/27/05	0.13	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-3 (19.5-20')	19.5	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-3 (23.5-24')	23.5	09/27/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-3 (26-26.5')	26.0	09/27/05	220	ND<1.0	ND<1.0	4.5	18	ND<100	ND<0.50	8.5

Former BP #11117

7210 Bancroft Ave., Oakland, CA

Soil Sample ID	Sample Depth (feet bgs)	Date Sampled	GRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	TBA (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
A-4 (5-5.5')	5.0	09/26/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-4 (15-15.5')	15.0	09/26/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-4 (19.5-20')	19.5	09/26/05	0.44	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA _
A-4 (23.5-24')	23.5	09/26/05	490	ND<1.0	18	18	87	ND<100	ND<0.0050	11
A-4 (31.5-32')	31.5	09/26/05	5.1	0.15	0.088	0.24	1.1	ND<5.0	0.48	NA
A-5 (5-5.5')	5.0	09/26/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-5 (10-10.5')	10.0	09/26/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-5 (15-15.5')	15.0	09/26/05	0.34	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	0.0085	NA
A-5 (19.5-20')	19.5	09/26/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	0.0053	NA
A-5 (22-22.5')	22.0	09/26/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	0.0058	NA
A-5 (25-25.5')	25.0	09/26/05	0.23	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.022	0.035	NA
A-5 (30-30.5')	30.0	09/26/05	1.3	0.0068	0.014	0.032	0.18	ND<0.020	0.015	NA
A-5 (35-35.5')	35.0	09/26/05	28	0.11	0.81	0.57	3.1	ND<5.0	0.030	NA
A-7 (6-6.5')	6.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-7 (11-11.5')	11.0	11/03/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA NA
A-7 (16-16.5')	16.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA NA
A-7 (21-21.5')	21.0	11/03/05	ND<0.098	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.020	ND<0.0049	NA NA
A-7 (25.5-26')	25.5	11/03/05	ND<25	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<50	0.43	NA NA
A-7 (36-36.5')	36.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	0.0064	NA

Former BP #11117

7210 Bancroft Ave., Oakland, CA

Soil Sample ID	Sample Depth (feet bgs)	Date Sampled	GRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	TBA (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
A-8 (6-6.5')	6.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-8 (11-11.5')	11.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-8 (15.5-16')	15.5	11/03/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-8 (21-21.5')	21.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-8 (25-25.5')	25.0	11/03/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-8 (30-30.5')	30.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-8 (36-36.5')	36.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
				377 0000		3 773 0 00 20	1 0 -0 -0	3 0 0 - 0		
A-9 (6-6.5')	6.0	11/03/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-9 (11-11.5')	11.0	11/03/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-9 (16-16.5')	16.0	11/03/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-9 (21-21.5')	21.0	11/03/05	ND<0.098	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.020	ND<0.0049	NA
A-9 (25-25.5')	25.0	11/03/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-9 (31-31.5')	31.0	11/03/05	ND<2.5	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<5.0	0.16	NA
A-9 (36-36.5')	36.0	11/03/05	ND<0.099	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-10 (5.5-6')	5.5	11/07/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-10 (10.5-11')	10.5	11/07/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-10 (15.5-16')	15.5	11/07/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-10 (20.5-21')	20.5	11/07/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-10 (25.5-26')	25.5	11/07/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-10 (30.5-31')	30.5	11/07/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA
A-10 (35.5-36')	35.5	11/07/05	ND<0.10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	NA

Former BP #11133

2220 98th Ave., Oakland, CA

Notes: All Samples analyzed by EPA Method 8260B. Di-isopropyl ether, 1,2-dibromoethane, 1,2-dichloroethane, ethyl tertiary butyl ether, tertiary amyl methyl ether and ethanol were not detected at or above their respective laboratory reporting limit.

Total lead analyzed by EPA Method 6000/7000 series for soil disposal purposes.

bgs = below ground surface

GRO = Gasoline range organics

TBA = tert-butyl alcohol

MTBE = Methyl tert-butyl ether

mg/kg = milligrams per kilogram

ND< = Not detected at or above stated laboratory reporting limit

NA = Not analyzed

Soil Boring Groundwater Analytical Data

Former BP #11117 7210 Bancroft Ave., Oakland, CA

Sample ID	DTW or Hydropunch screen interval (feet bgs)	Date Sampled	GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	TBA (ug/L)	MTBE (ug/L)
A-1 (22.6')	22.6	09/27/05	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<0.50
A-2 (21,3')	21.3	09/27/05	510,000	ND<250	ND<250	7,200	29,000	ND<10,000	ND<250
A-2 (40'-42')	40-42	09/27/05	36,000	1,800	97	1,300	1,200	ND<1,000	110
A-3 (19.4')	19.4	09/27/05	25,000	12	43	500	1,900	ND<500	ND<12
A-3 (34'-36')	34-36	09/27/05	12,000	21	24	ND<5.0	130	ND<200	8.3
A-4 (21.6')	21.6	09/26/05	150,000	2,500	7,300	5,500	18,000	ND<2,000	820
A-4 (34'-36')	1 54 54								
 	34-36	09/26/05	120,000	11,000	2,400	4,000	19,000	ND<10,000	39,000
A-5 (19.5')	19.5	09/26/05	120,000 790	11,000 10	2,400 ND<2.5	4,000	19,000 3.8	ND<10,000 350	39,000 510
	· ·						·		
A-5 (19.5')	19.5	09/26/05	790	10	ND<2.5	2.8	3.8	350	510
A-5 (19.5') A-8 (24.6')	19.5	09/26/05	790 ND<50	10 ND<0.50	ND<2.5	2.8 ND<0.50	3.8 ND<0.50	350 ND<20	510 ND<0.50

Soil Boring Groundwater Analytical Data

Former BP #11117
7210 Bancroft Ave., Oakland, CA

Notes:

All Samples analyzed by EPA Method 8260B. Di-isopropyl ether, 1,2-dibromoethane, 1,2-dichloroethane, ethyl tertiary butyl ether, tertiary amyl methyl ether and ethanol were not detected at or above their respective laboratory reporting limit. Total lead analyzed by EPA Method 6000/7000 series for soil disposal purposes.

DTW = Depth to water

bgs = below ground surface

GRO = Gasoline range organics

TBA = tert-butyl alcohol

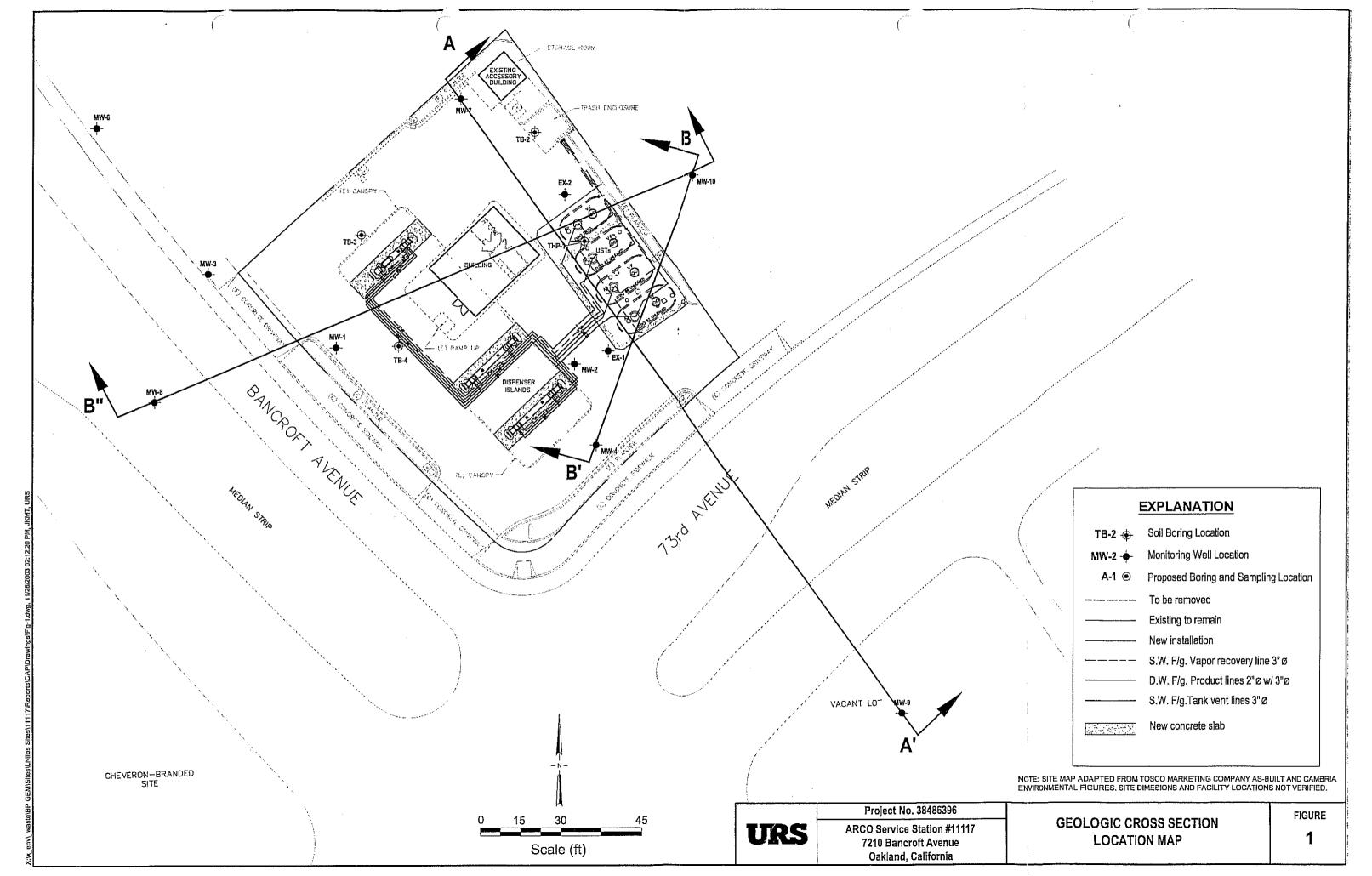
MTBE = Methyl tert-butyl ether

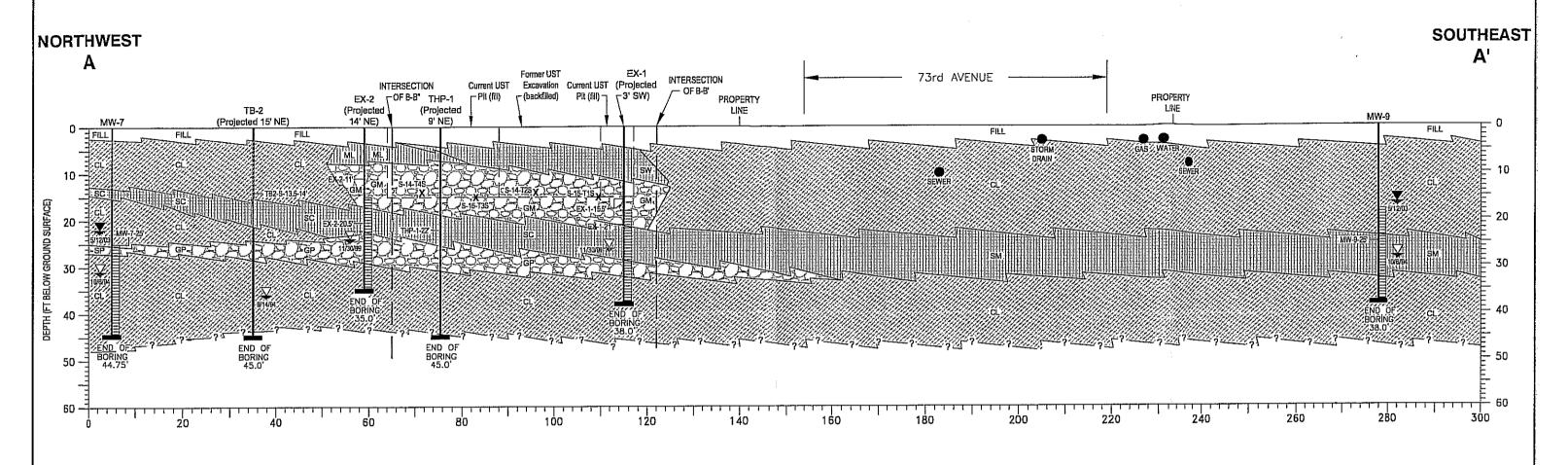
ug/L = micrograms per liter

ND< = Not detected at or above stated laboratory reporting limit

NA = Not analyzed

APPENDIX C. GEOLOGIC CROSS SECTIONS



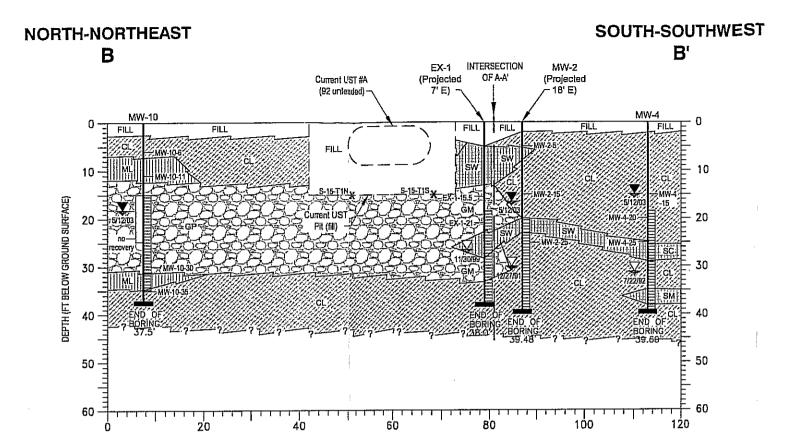


SOIL CONCENTRATIONS (ppm)					
Sample ID	Date	TPH-g	Benzene	MTBE	
EX-2-11	11/30/99	ND<1.0	ND<0.005	0.012	
EX-2-20.5	11/30/99	ND<1.0	ND<0.005	ND<0.005	
EX-1-15.5	11/30/99	ND<1.0	ND<0.005	0.011	
EX-2-21	11/30/99	ND<1.0	ND<0.005	ND<0.005	
MW-7-25	10/6/94	ND<1.0	ND<0.005		
MW-9-25	10/6/94	ND<1.0	ND<0.005		
S-14-T4S	8/14/98	ND	ND	0.028	
S-15-T3S	8/14/98	ND	ND	0.065	
S-14-T2S	8/14/98	3.7	ND	0.055	
S-15-T1S	8/14/98	5,300	ND	ND	
TB2-S-13.5-14	9/14/94	ND	ND	ND	
THP-1-22	9/14/94	ND	ND	ND	

	<u>LEGEND</u>
CL	Gravelly clays, sandy clays, silty days, lean days
ML	Silts and very fine sands
SW-SM, SC	Gravelly and/or silty to clayey sand
GP-GM	Sandy and/or silly grave!
мw-з 	Well or Soil Boring Number - Distance and Direction of Projection
CL	-Soil Type using the Unified Soil Classification System
I	– Analyzed Soil Sample
↑ 10224 ↑ 21500	−Static water level/date
₹	-First encountered water/date
END OF BORNIG 40.0'	-Total depth of boring
THP-1-22" -	–Soil sample analytical results with TPH-g, Benzene, and MTBE concentrations in milligrams per kilogram (mg/kg) shown on table
Utility information	on provided by PG&E, EBMUD, and City of Oakland

-			
	0	10 20 Scale (ft)	40

Oakland, California



SOIL CONCENTRATIONS (ppm)				
Sample ID	Date	TPH-g	Benzene	MTBE
EX-1-15.5	11/30/99	ND<1.0	ND<0.005	0.011
EX-1-21	11/30/99	ND<1.0	ND<0.005	ND<0.005
MW-2-5	12/27/91	ND	ND	ND
MW-2-15	12/27/91	ND	ND	ND
MW-2-25	12/27/91	ND	ND	ND
MW-4-15	7/22/92	240	ND	- !
MW-4-20	7/22/92	6,000	34	-
MW-4-25	7/22/03	1,100	1.6	-
MW-10-6	_	ND<0.1	ND<0.001	ND<0.1
MW-10-30	-	ND<0.1	ND<0.001	ND<0.1
MW-10-35	_	ND<0.1	ND<0.001	ND<0.1
S-15-T1N	8/14/98	480	0.4	1.6
S-15-T1S	8/14/98	5,300	ND	ND

LEGEND

CL Gravelly clays, sandy clays, silty clays, lean clays

ML Silts and very fine sands

GP-GM

SW-SM, SC Gravelly and/or slifty to dayey sand

Well or Soil Boring Number

Distance and Direction of Projection

CL Soil Type using the
Unified Soil Classification System

Analyzed Soil Sample

Static water level/date

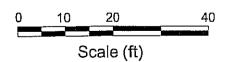
V 10054

First encountered water/date

-Total depth of boring

Sandy and/or silty gravel

THP-1-22 ——Soil sample analytical results with TPH-g,
Benzene and MTBE concentrations in milligrams
per kilogram (mg/kg) shown on table



URS

Project No. 38486396

Former BP Service Station #11117
7210 Bancroff Avenue
Oakland, California

GEOLOGIC CROSS SECTION
B - B'

FIGURE

120

140

160

180

100

SOIL CONCENTRATIONS (ppm)					
Sample ID	Date	TPH-g	Benzene	MTBE	
EX-2-11	11/30/99	ND<1.0	ND<0.005	ND<0.005	
EX-2-20,5	11/30/99	ND<1.0	ND<0.005	ND<0.005	
MW-1-5	12/27/91	ND	ND	ND	
MW-1-15	12/27/91	ND	ND	ND	
MW-1-25	12/27/91	ND	ND	ND	
MW-8-25	10/6/94	ND<1.0			
MW-10-6	7/7/97	ND<1.0	-	-	
MW-10-11	7/7/97	ND<1.0	-	-	
MW-10-30	7/7/97	ND<1.0	-	-	
MW-10-35	7/7/97	ND<1.0	-	_	
S-3-PL9	8/14/98	ND	ND	ND	
(proj. 8' NW) S-14-T4S	8/14/98	ND	ND	0.028	
S-15-T4N	8/14/98	ND	ND	0.26	
TB4-S-6.5-7	9/14/94	ND	ND	ND	
TD-5	9/8/94	ND	ND	ND	
(proj. 14' NW) TPH-1-22	9/8/94	ND	ND	ND	

	<u>LEGEND</u>
CL	Gravelly clays, sandy clays, silty clays, lean clays
ML	Silts and very fine sands
SW-SM, SC	Gravelly and/or silty to clayey sand
GP-GM	Sandy and/or sity gravel
MW-1	Well or Soil Boring Number Distance and Diraction of Projection
CL	–Soll Type using the Unified Soll Classification System
I	-Analyzed Soli Sample
▼ 5/2/III ▼ 10554	- Static water level/date
₹ 10EBH	-First encountered water/date
240 OF BDRING 40.0'	Total depth of boring
THP-1-22'	–Soil sample analytical resulls with TPH-g, Benzene and MTBE concentrations in milligrams per kilogram (mg/kg) shown on table
Utility Information	on provided by PG&E, EBMUD, and City of Oakland

0	10	20	40
	S	cale (ft)	

	Project No. 38486396		FIGURE
URS	Former BP Service Station #11117 7210 Bancroft Avenue Oakland, California	GEOLOGIC CROSS SECTION B - B"	4

220

APPENDIX D. UNDERGROUND UTILITIES SITE MAP

